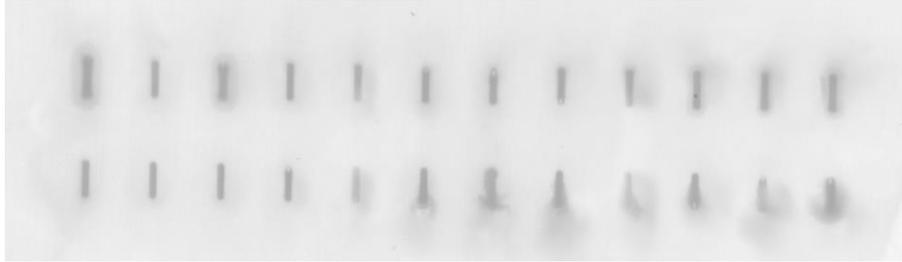


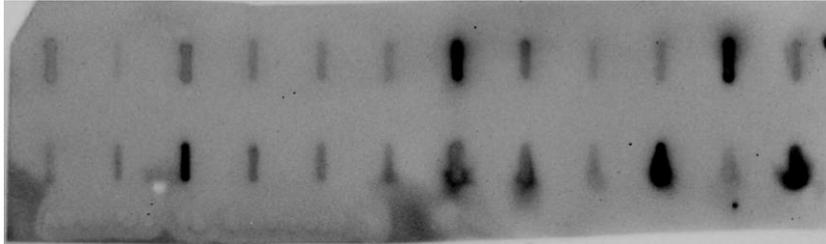
Supplementary Figure S1. Ponceau S staining and Slot/Western blots images for each protein evaluated.

CRP - serum

PonceauS



Blot



Samples order from upper left corner: CTRL1-1 | DOX1-1 | CTRL2-1 | DOX2-1 | CTRL1-2 | DOX1-2 | CTRL2-2 | DOX2-2 | CTRL1-3 | DOX1-3 | CTRL2-3 | DOX2-3
CTRL1-4 | DOX1-4 | CTRL2-4 | DOX2-4 | CTRL1-5 | DOX1-5 | CTRL2-5 | DOX2-5 | CTRL1-6 | DOX1-6 | CTRL2-6 | DOX2-6

DNP (protein carbonyl levels) - serum

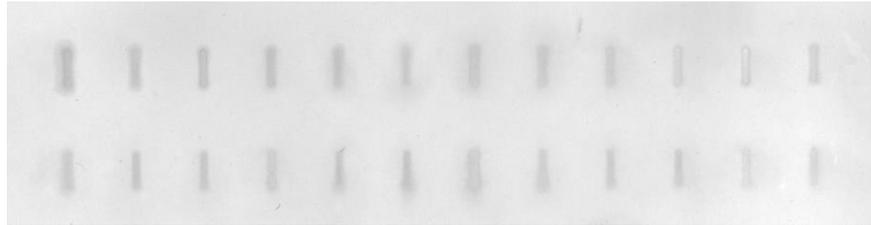
Blot



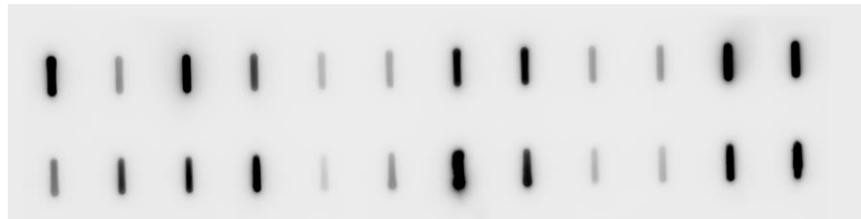
Samples order from upper left corner: CTRL1-1 | DOX1-1 | CTRL2-1 | DOX2-1 | CTRL1-2 | DOX1-2 | CTRL2-2 | DOX2-2 | CTRL1-3 | DOX1-3 | CTRL2-3 | DOX2-3
CTRL1-4 | DOX1-4 | CTRL2-4 | DOX2-4 | CTRL1-5 | DOX1-5 | CTRL2-5 | DOX2-5 | CTRL1-6 | DOX1-6 | CTRL2-6 | DOX2-6

Nitrotyrosine - serum

PonceauS



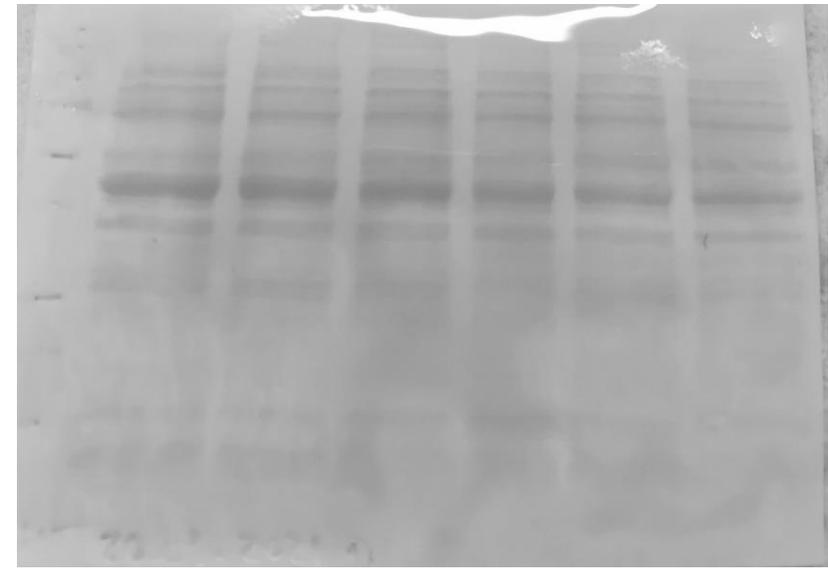
Blot



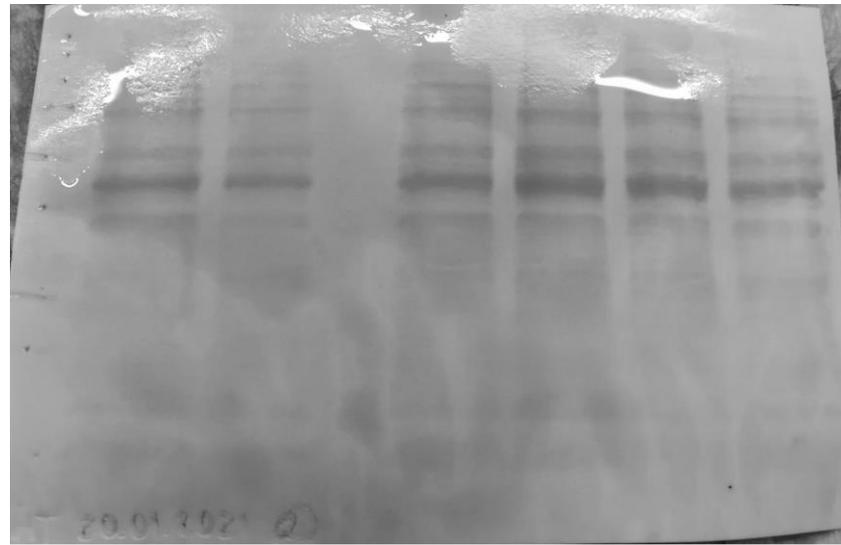
Samples order from upper left corner: CTRL1-1 | DOX1-1 | CTRL2-1 | DOX2-1 | CTRL1-2 | DOX1-2 | CTRL2-2 | DOX2-2 | CTRL1-3 | DOX1-3 | CTRL2-3 | DOX2-3
CTRL1-4 | DOX1-4 | CTRL2-4 | DOX2-4 | CTRL1-5 | DOX1-5 | CTRL2-5 | DOX2-5 | CTRL1-6 | DOX1-6 | CTRL2-6 | DOX2-6

GLUT4 - PonceauS

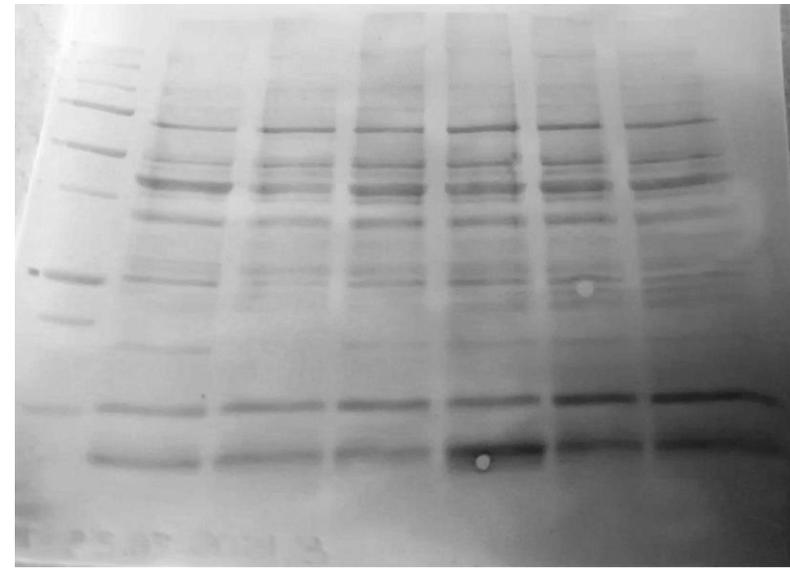
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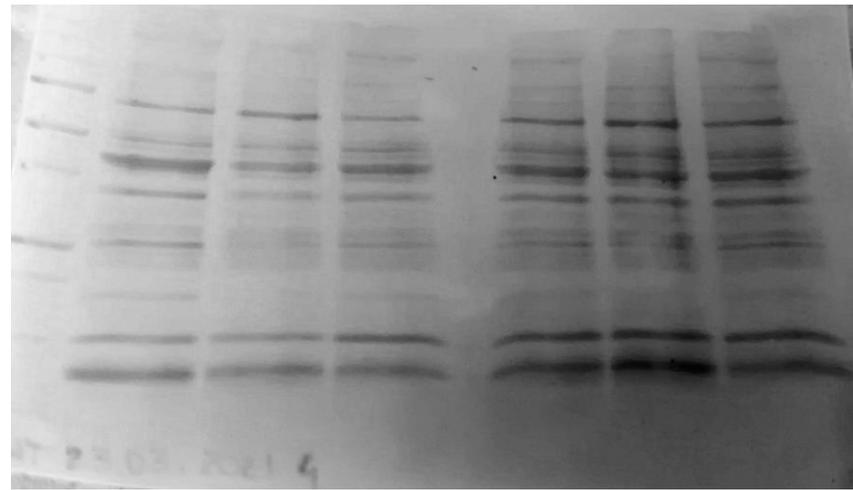
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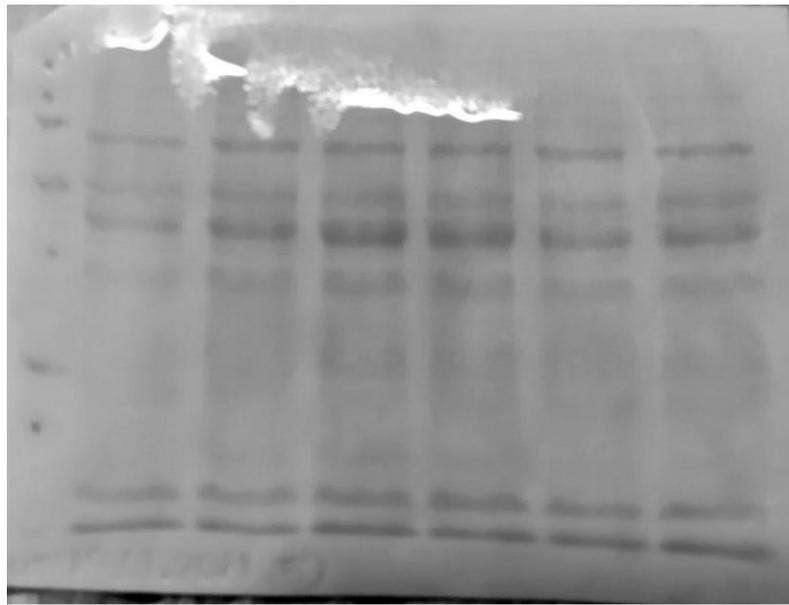
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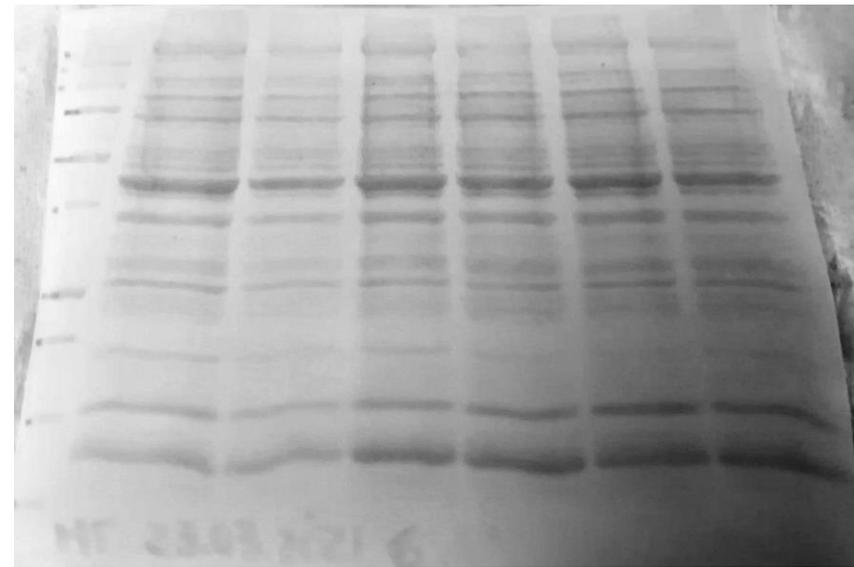
4



5



6

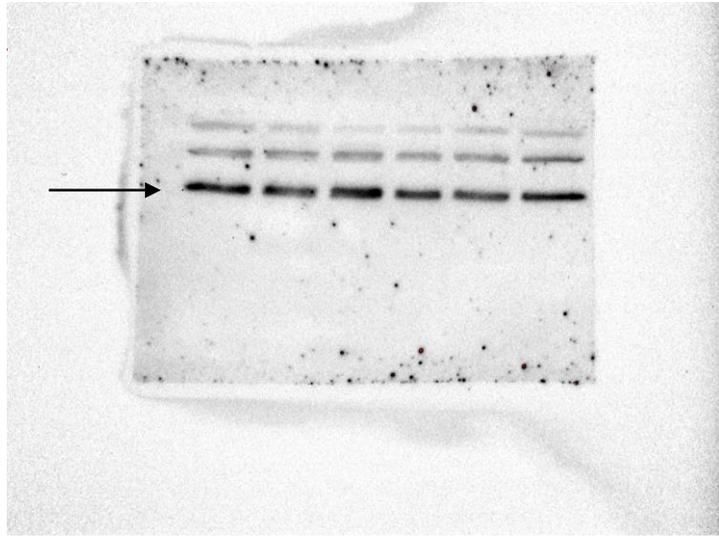


MWM: molecular weight marker

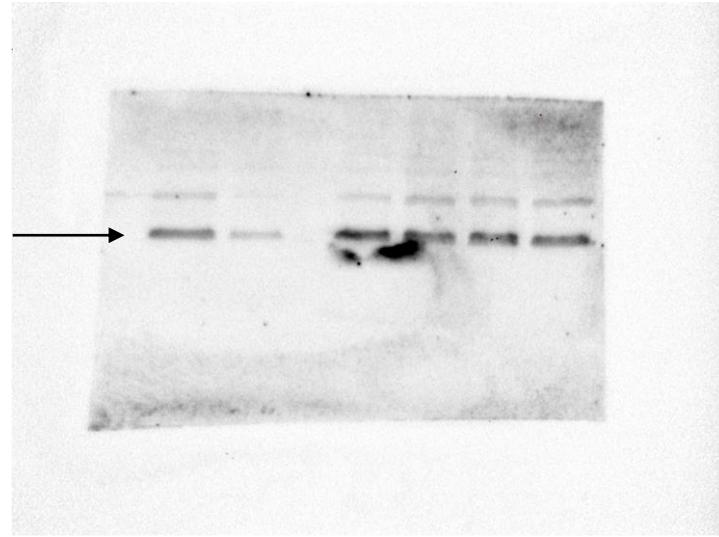
Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

GLUT4 - Blot

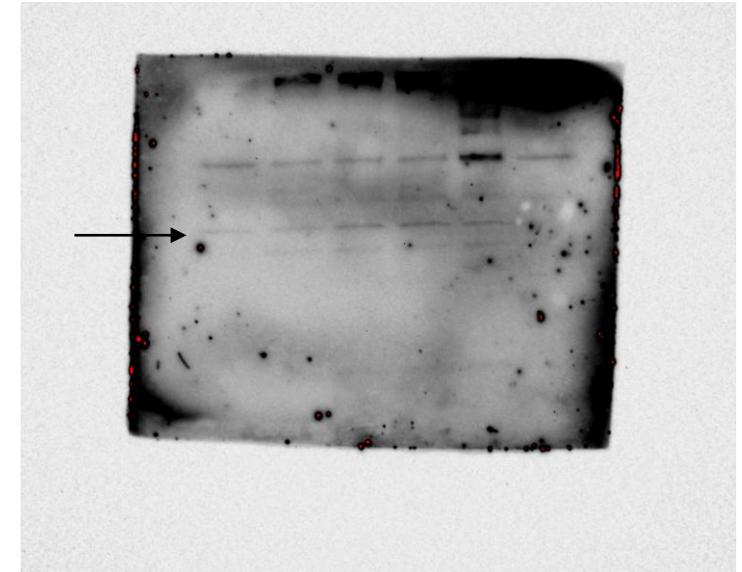
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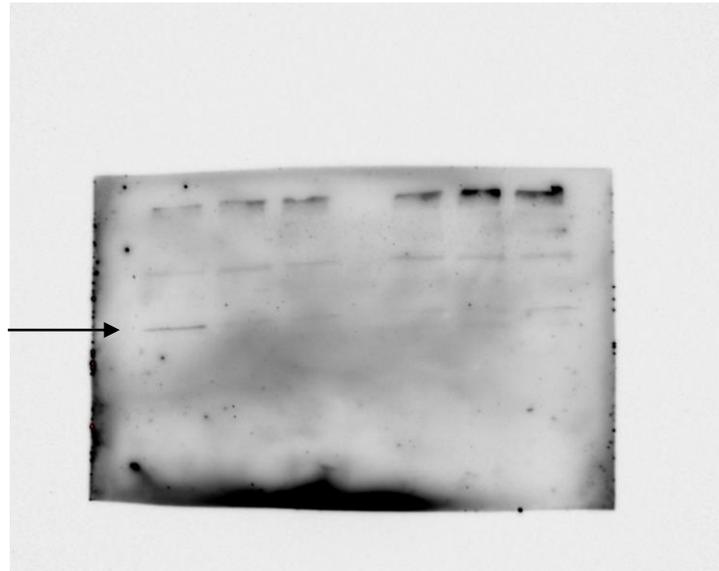
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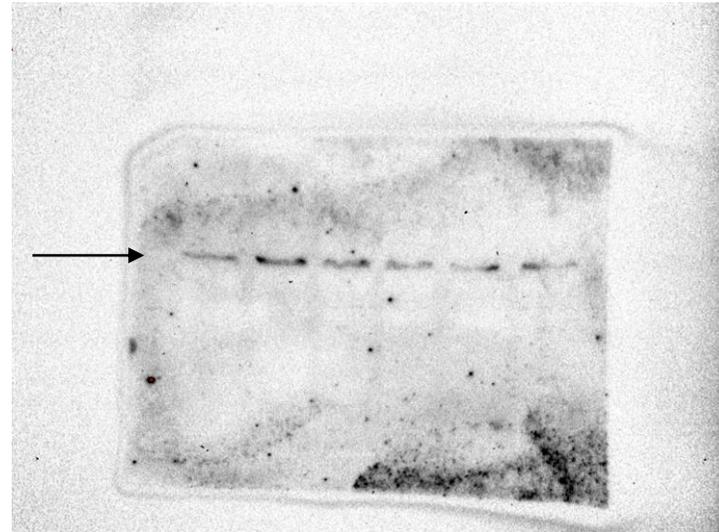
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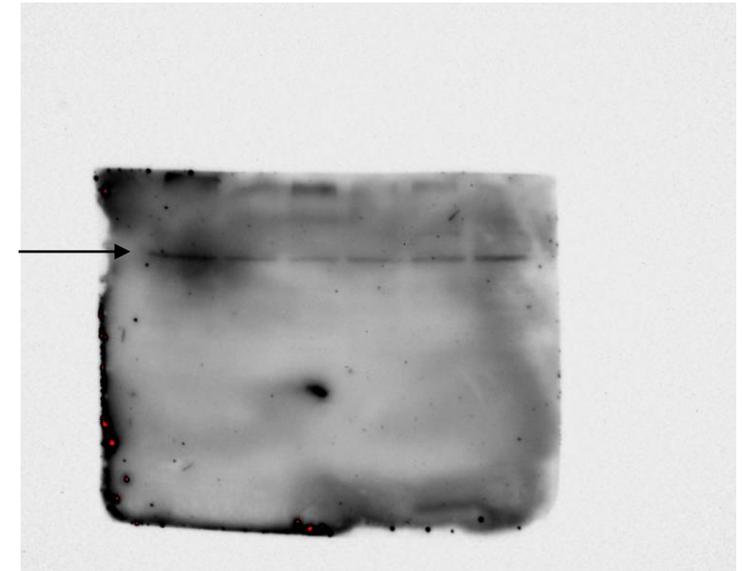
4



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6

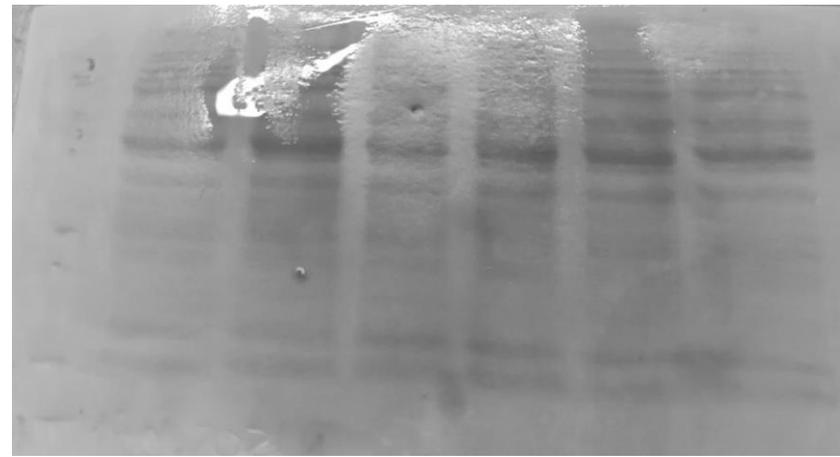


MWM: molecular weight marker

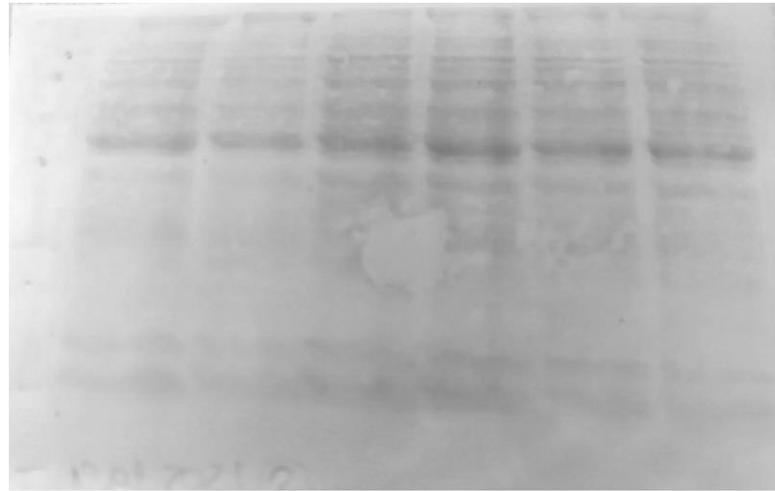
Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

PFKM - PonceauS

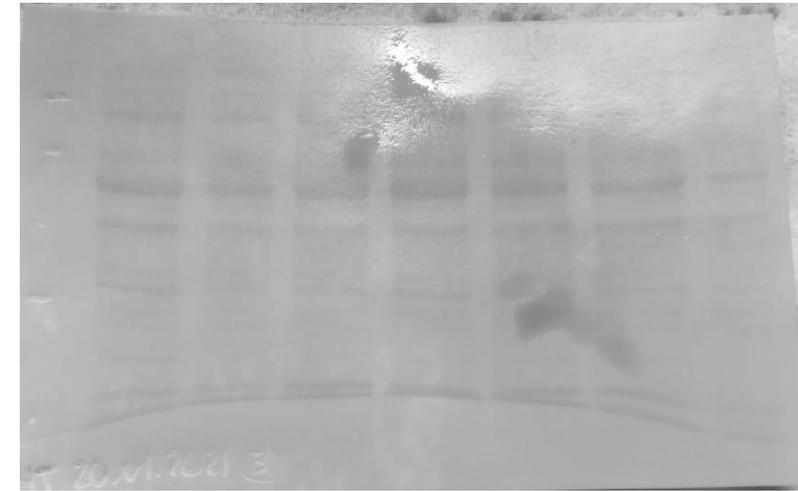
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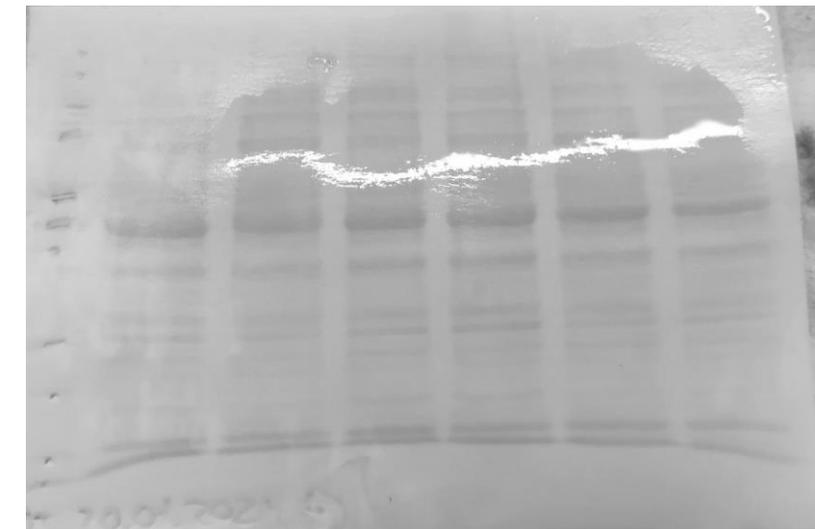
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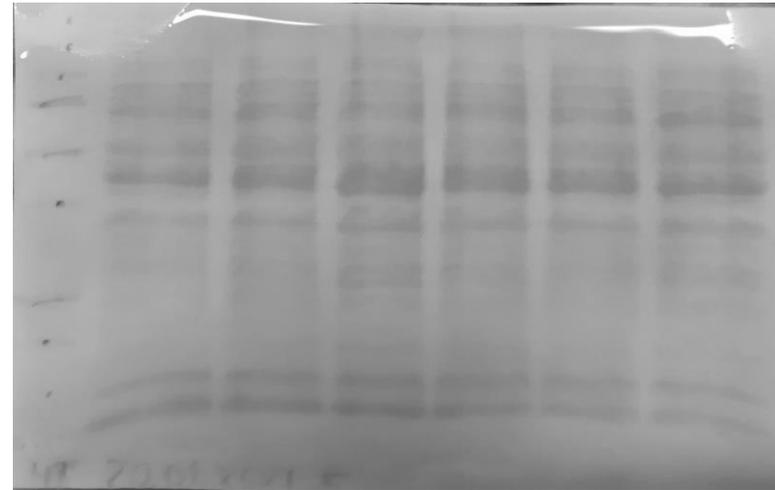
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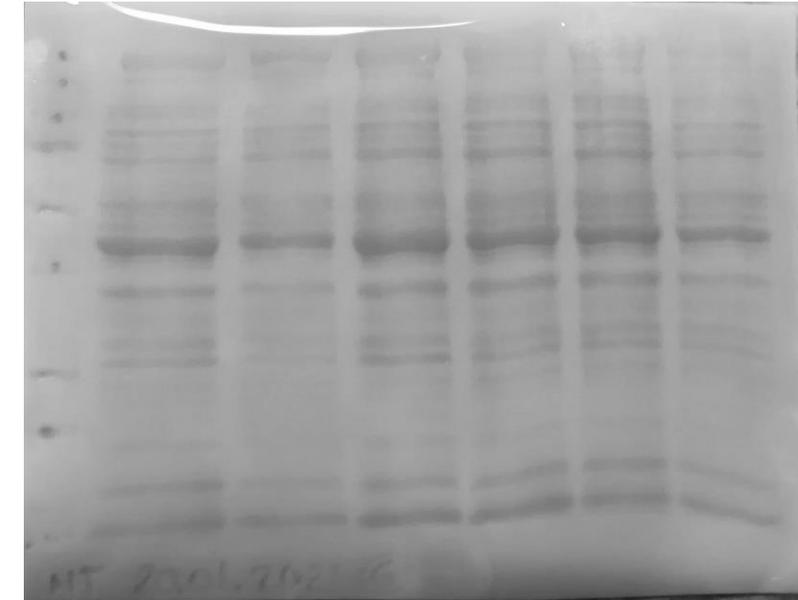
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5



6

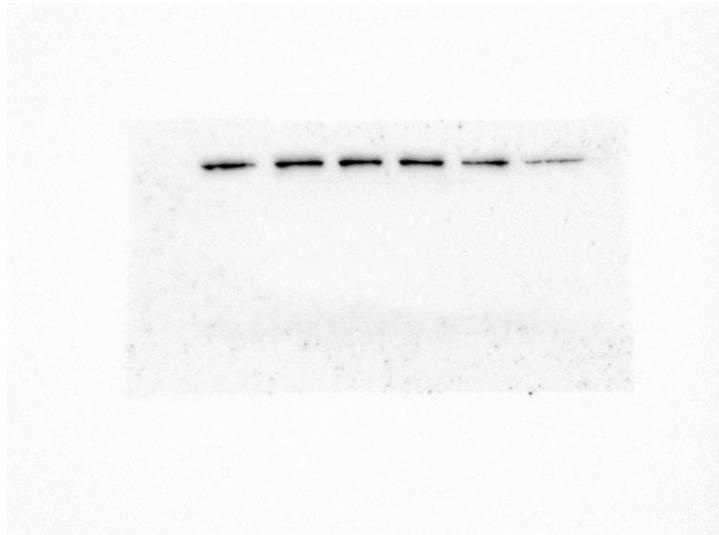


MWM: molecular weight marker

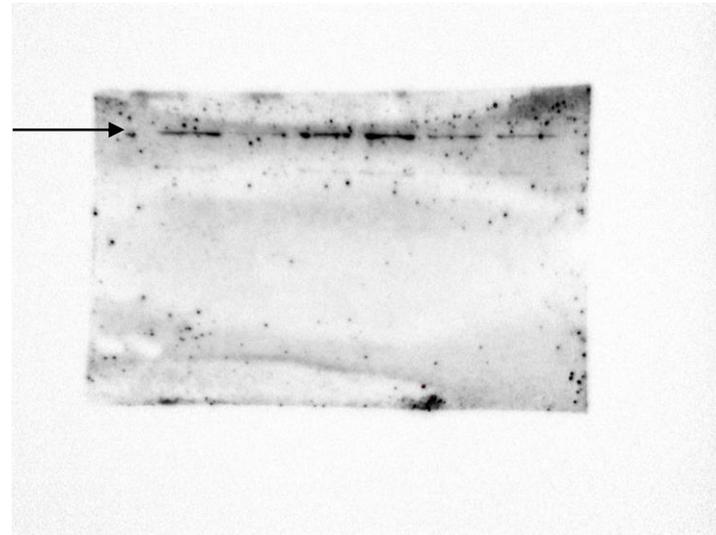
Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

PFKM - Blot

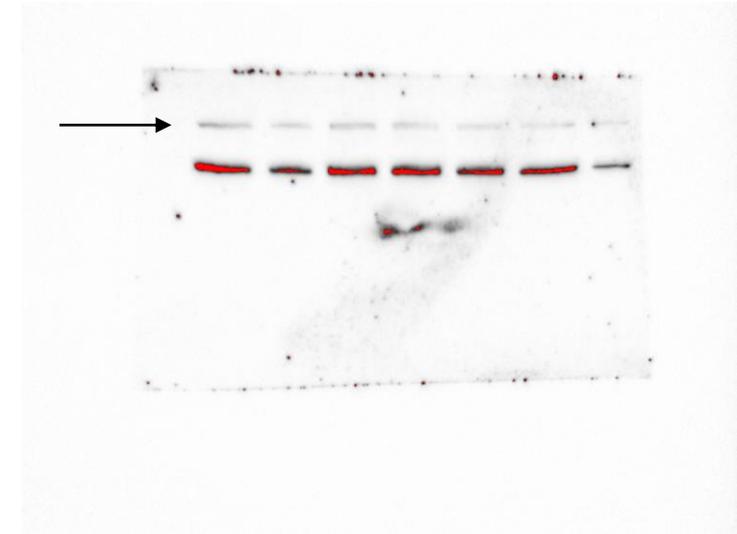
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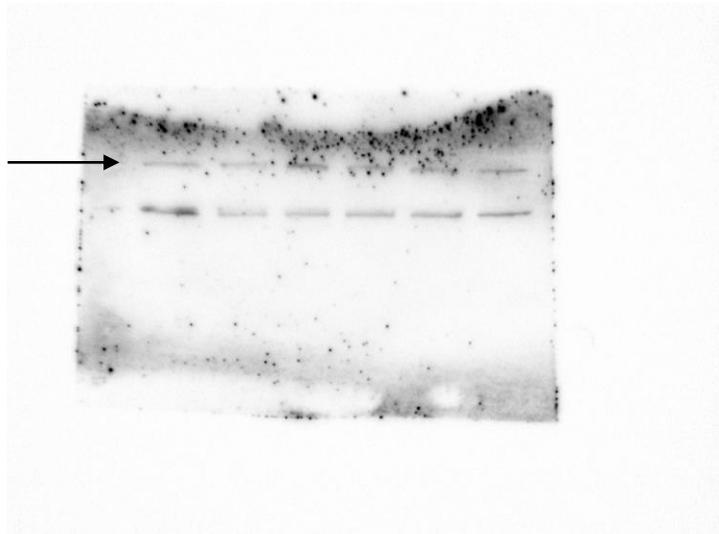
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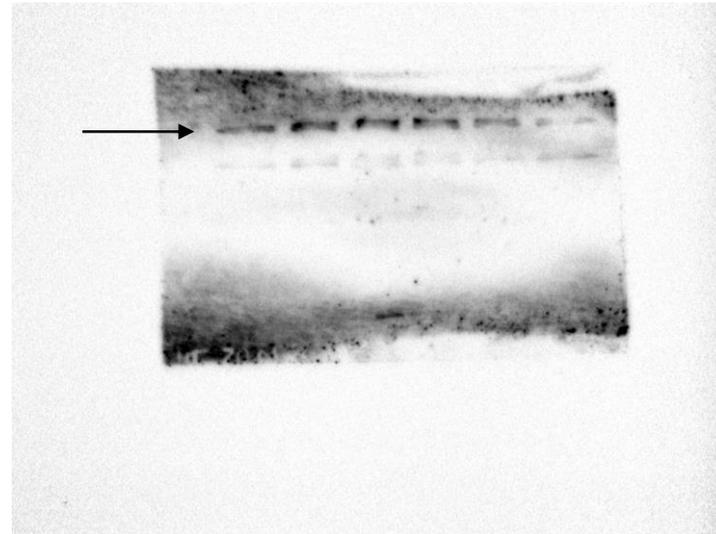
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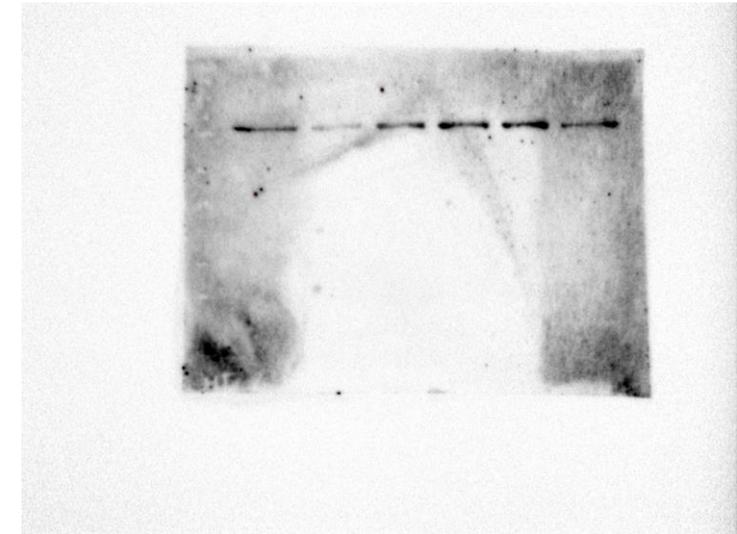
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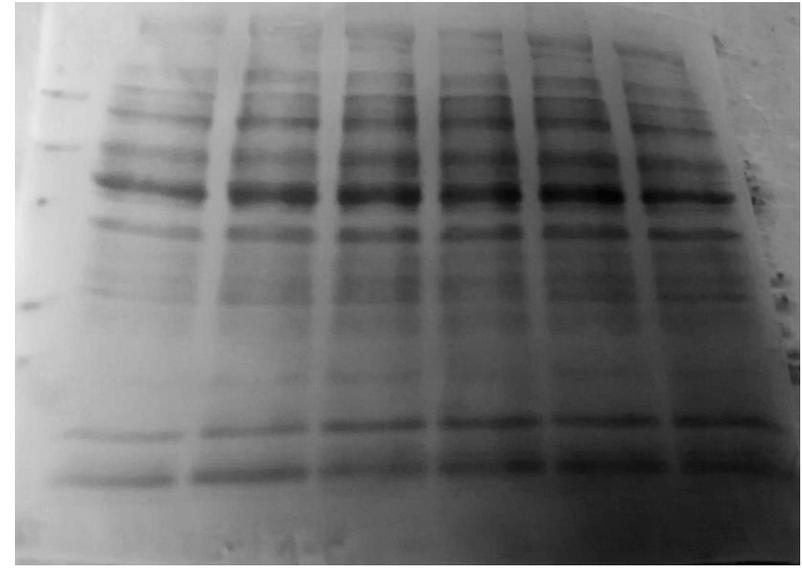
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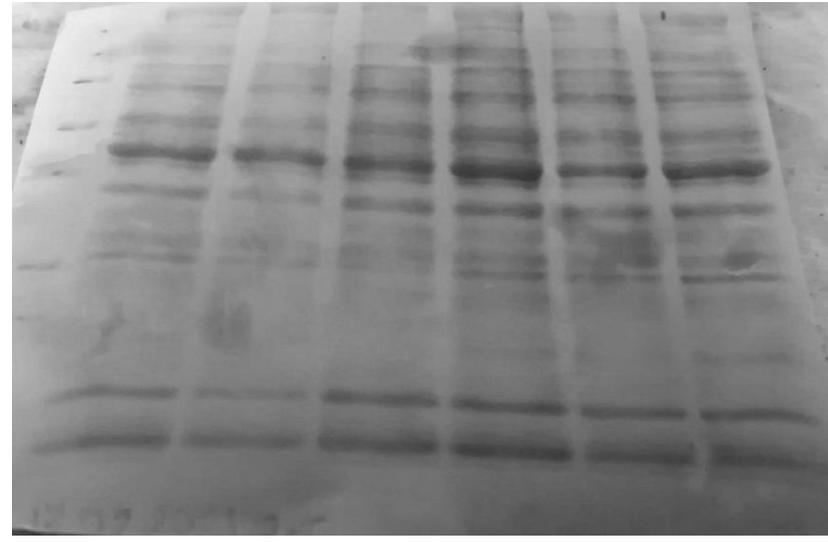
MWM: molecular weight marker

Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

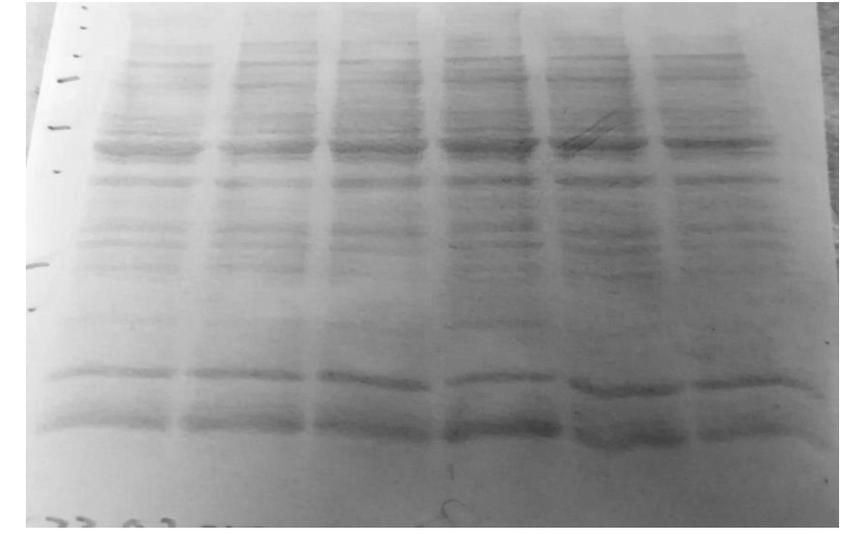
ETF-QO - PonceauS
1



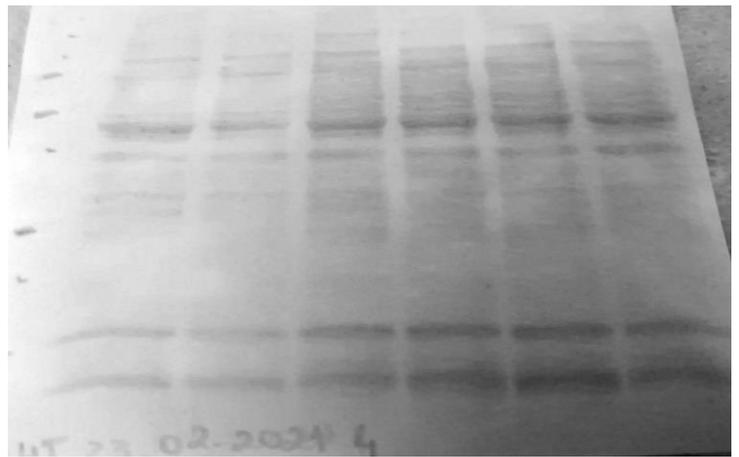
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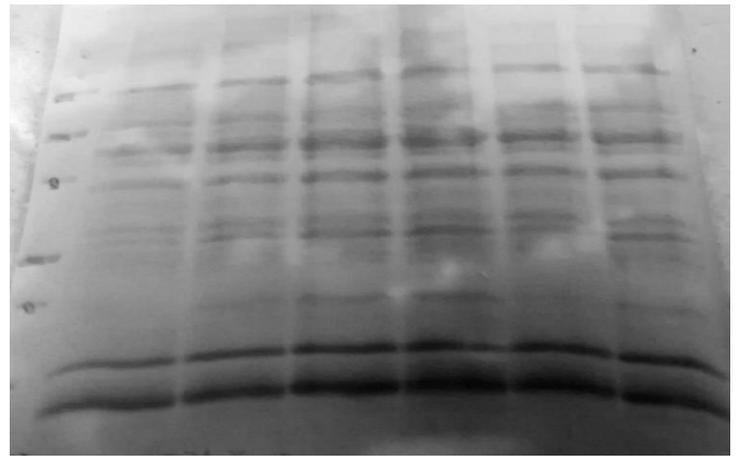
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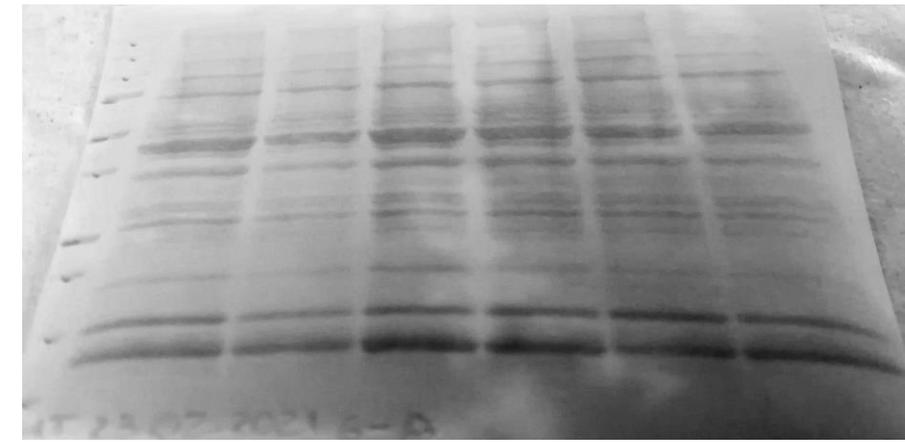
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5



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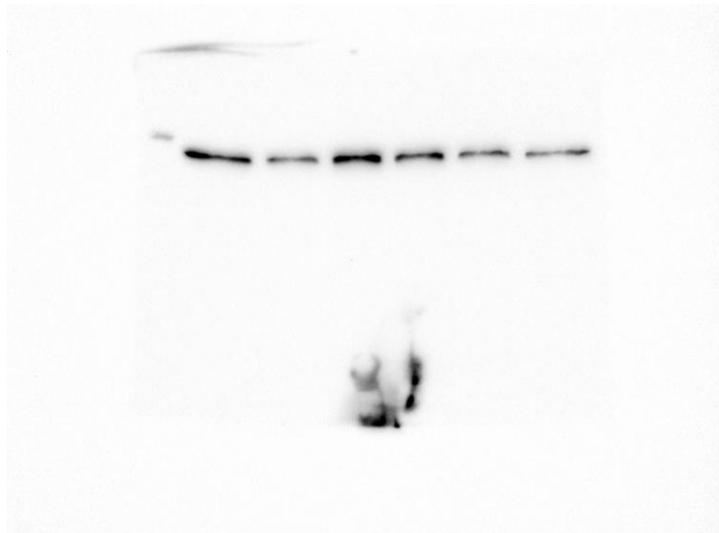


MWM: molecular weight marker

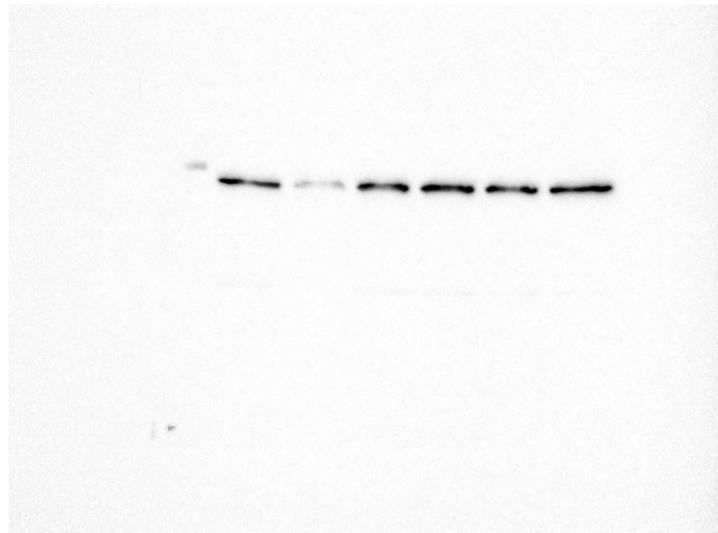
Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

ETF-QO - Blot

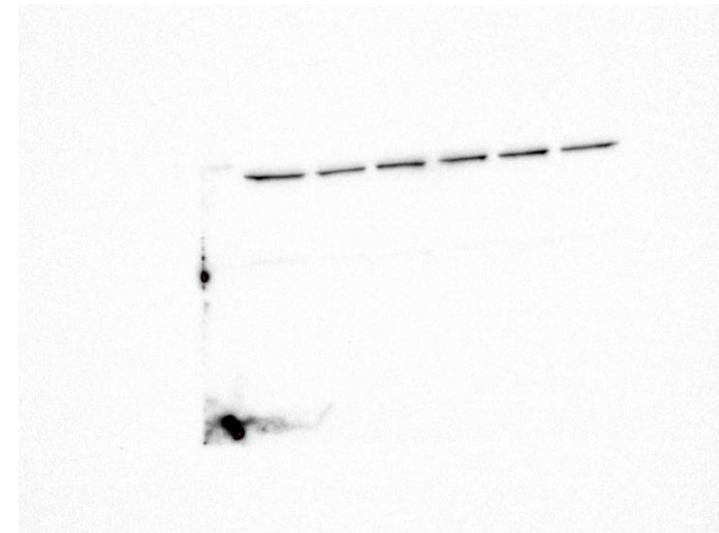
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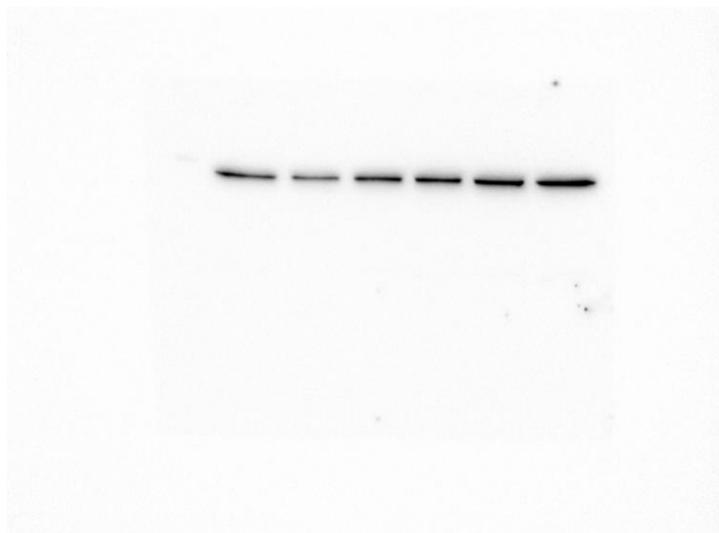
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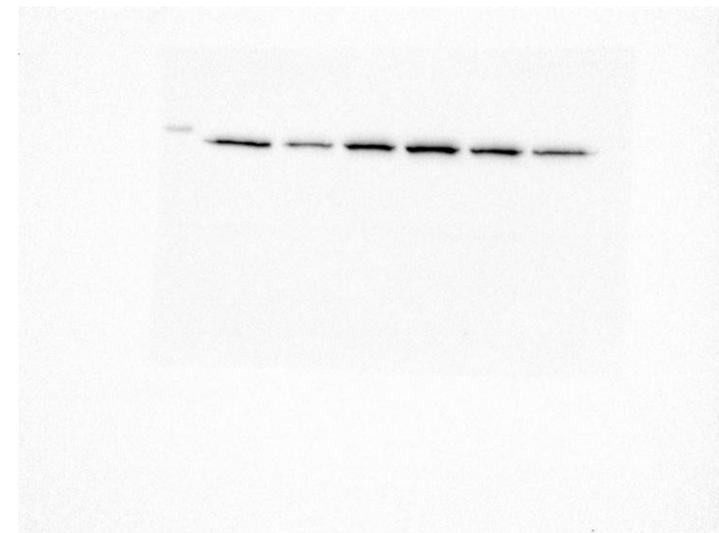
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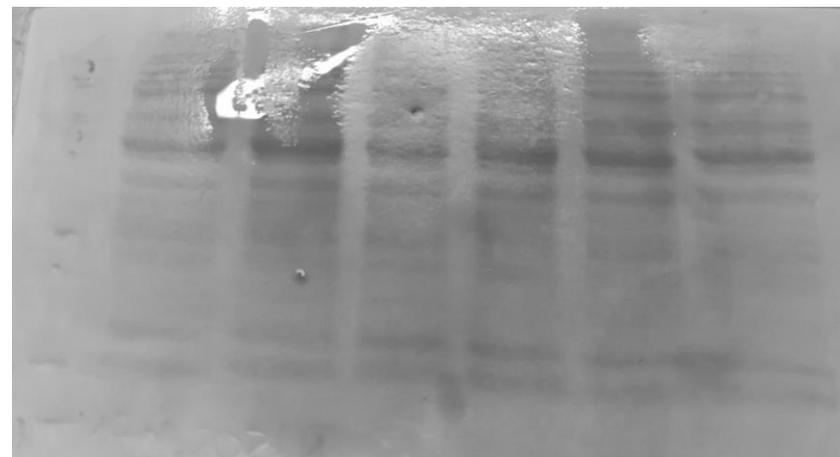


MWM: molecular weight marker

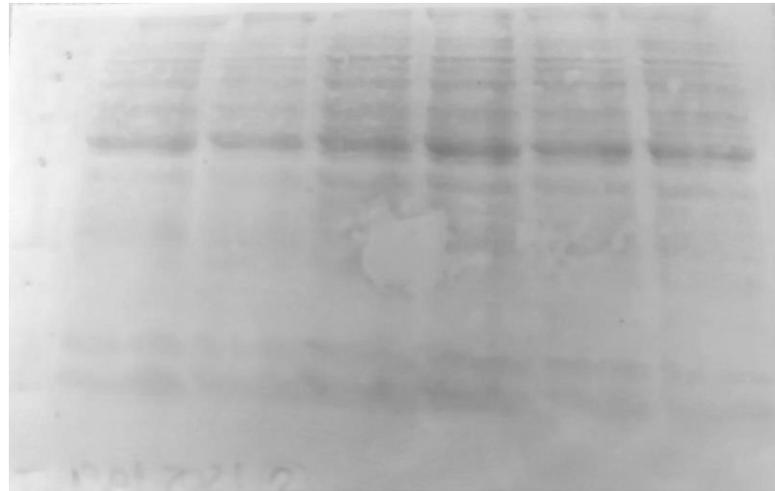
Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

ATPB - PonceauS

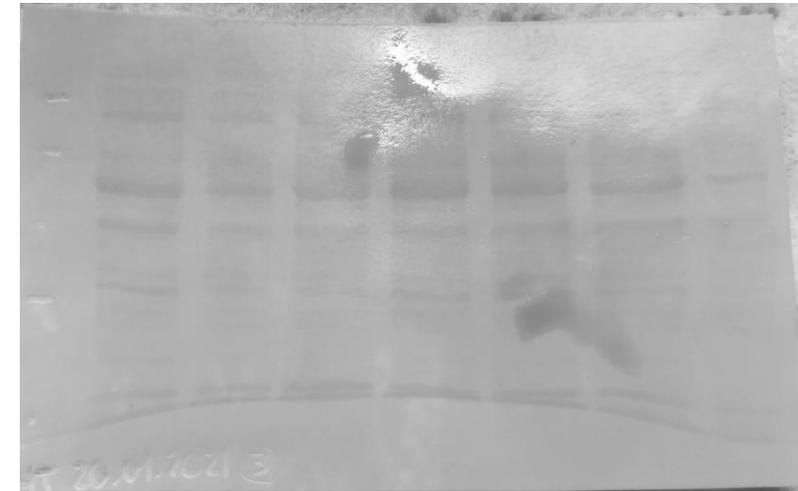
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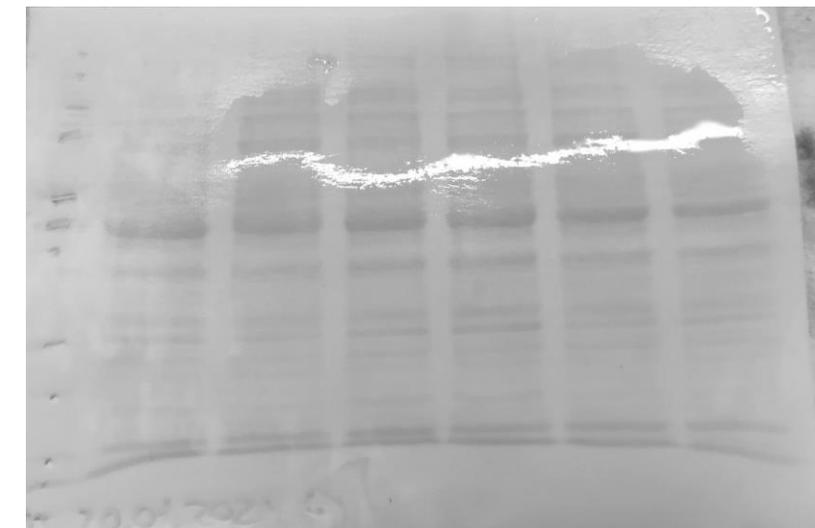
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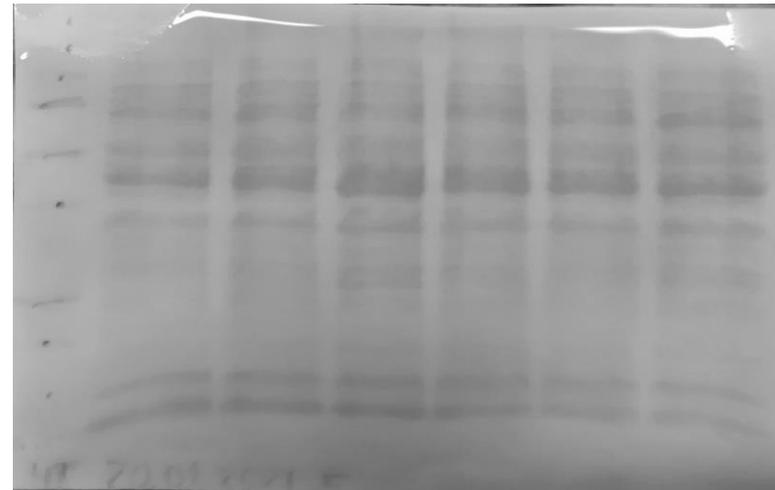
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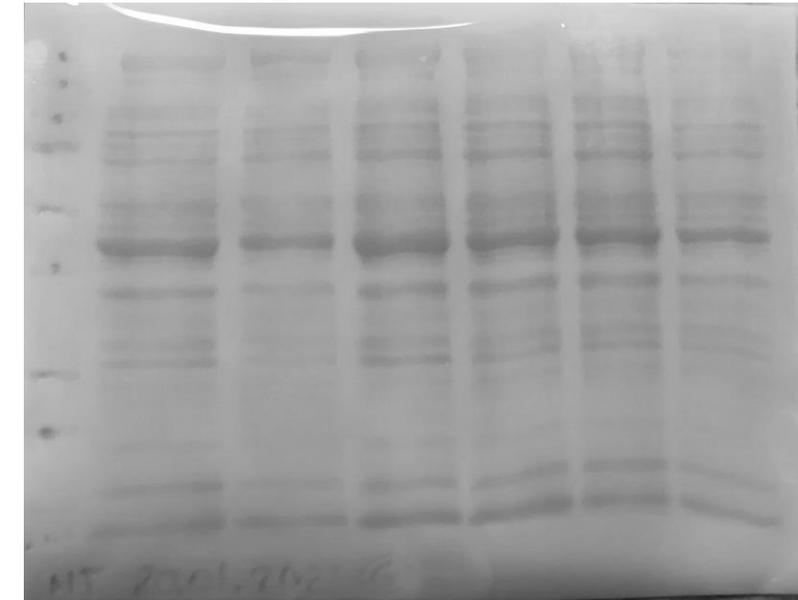
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6

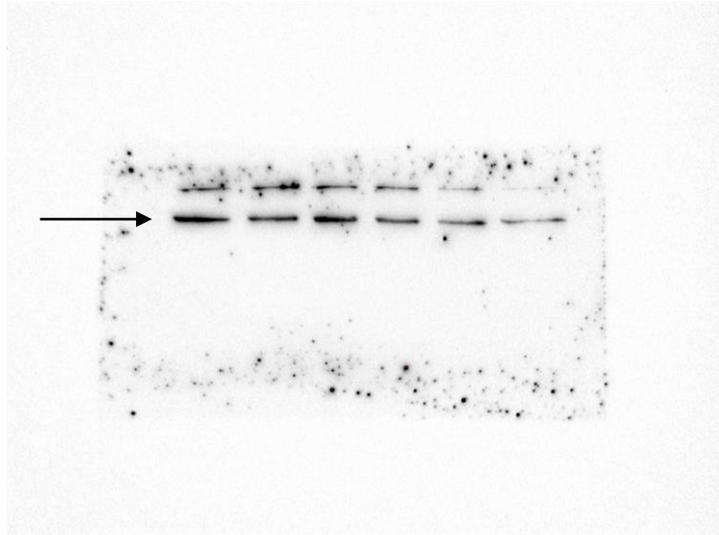


MWM: molecular weight marker

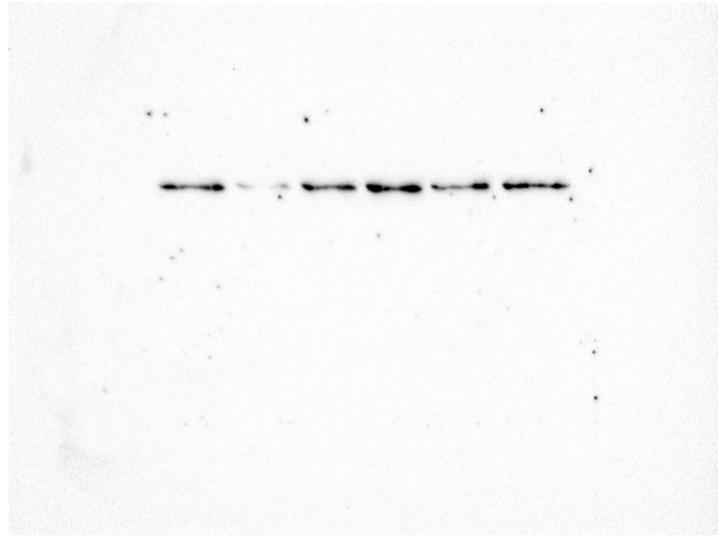
Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

ATPB - Blot

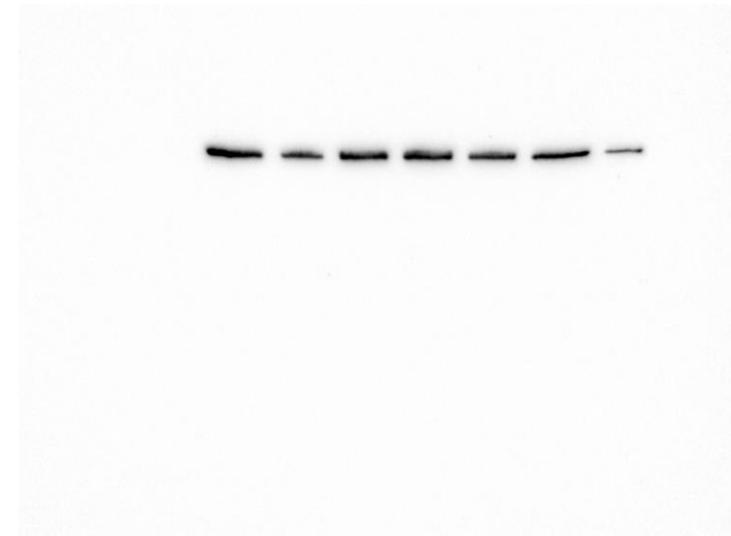
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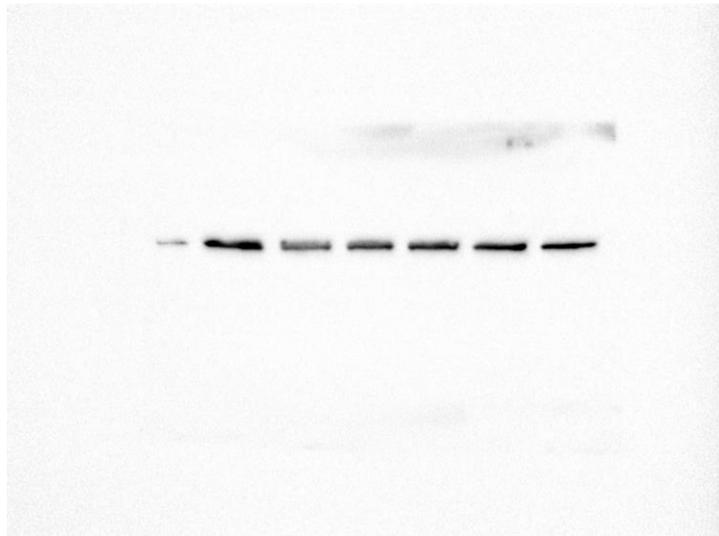
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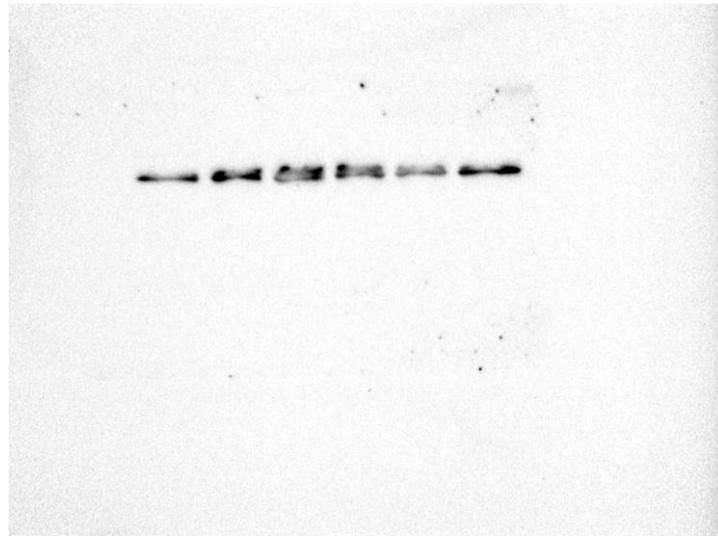
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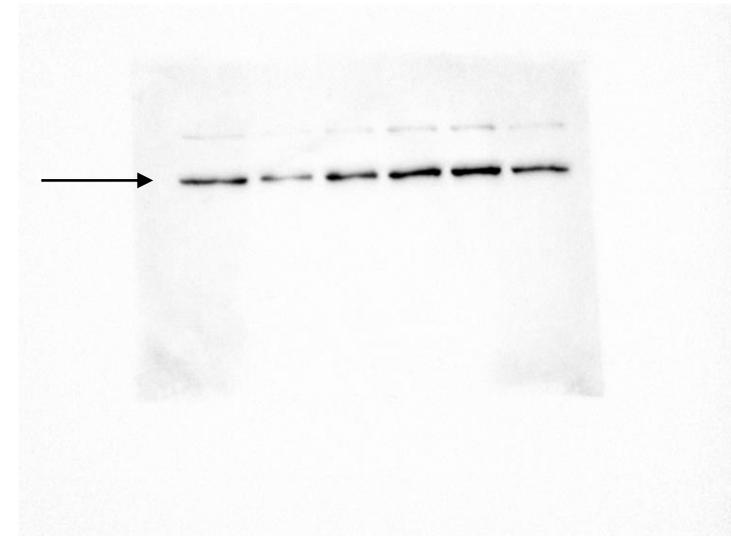
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5



6



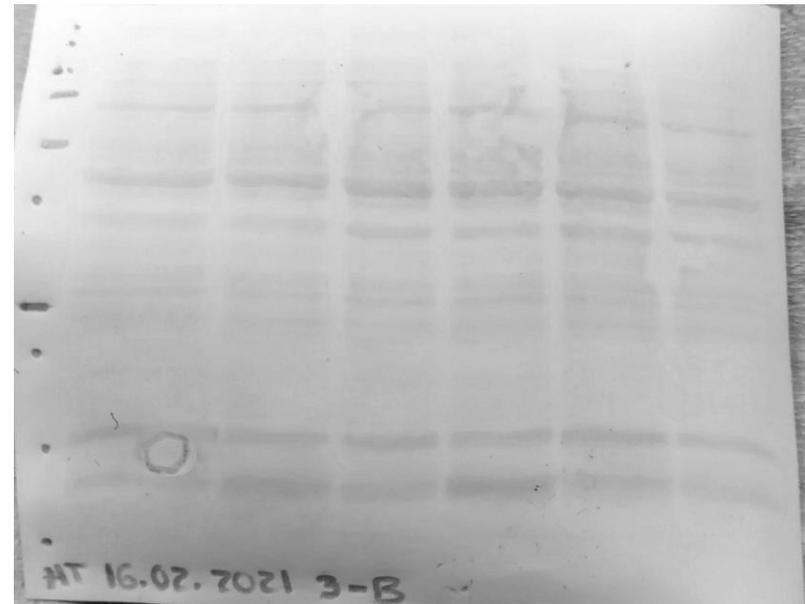
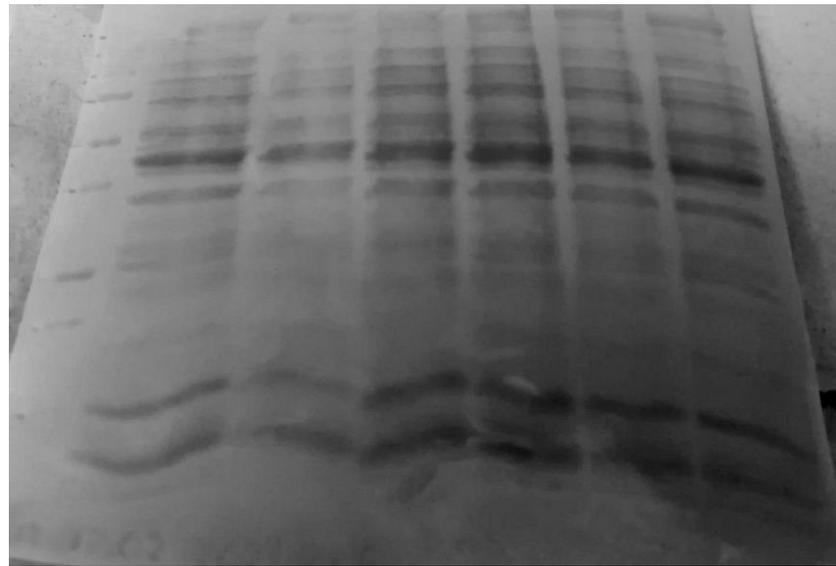
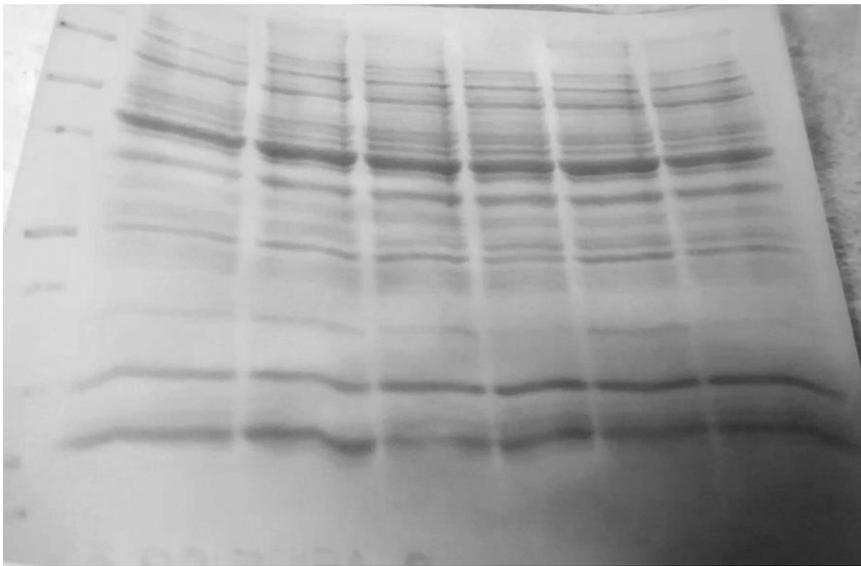
MWM: molecular weight marker

Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

SIRT3 - PonceauS₁

2

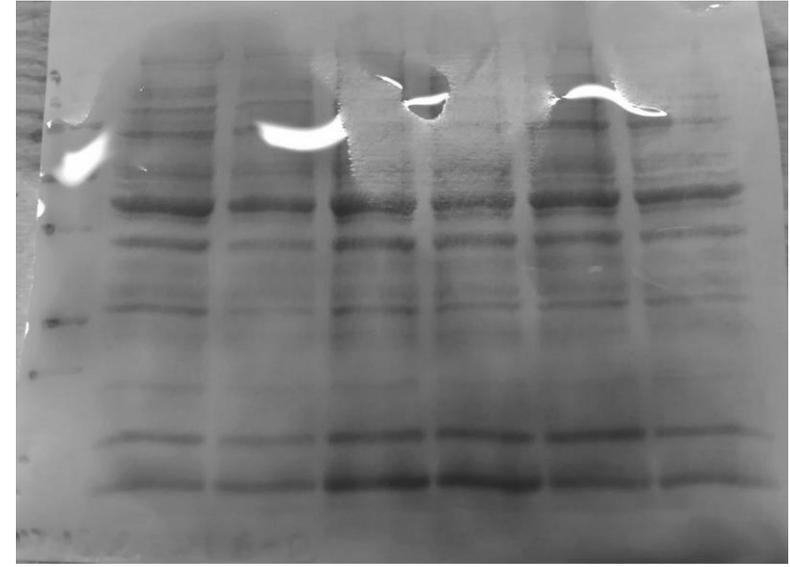
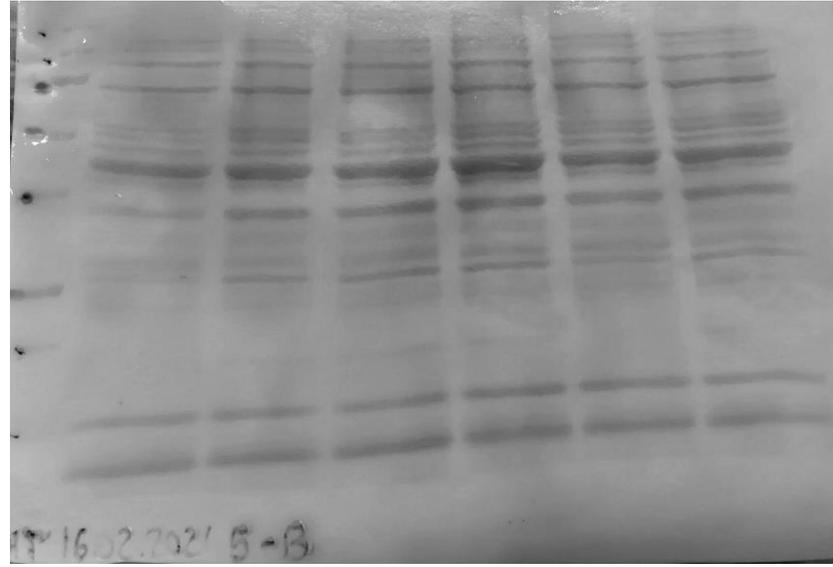
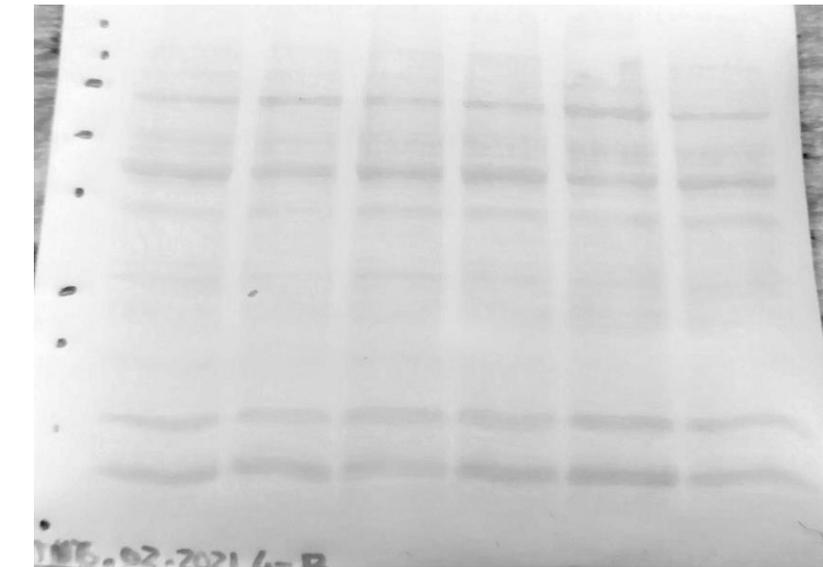
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4

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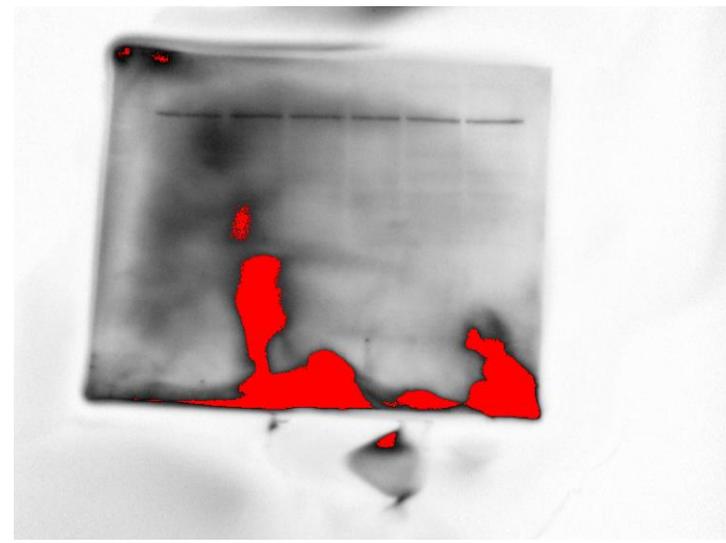


MWM: molecular weight marker

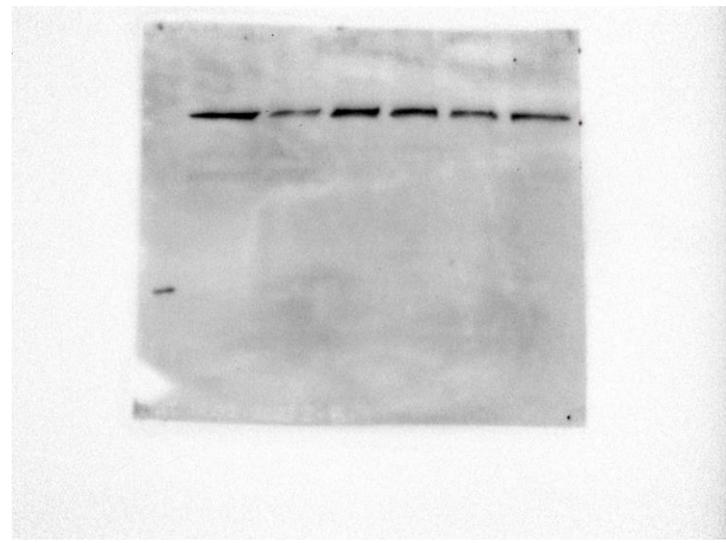
Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

SIRT3 - Blot

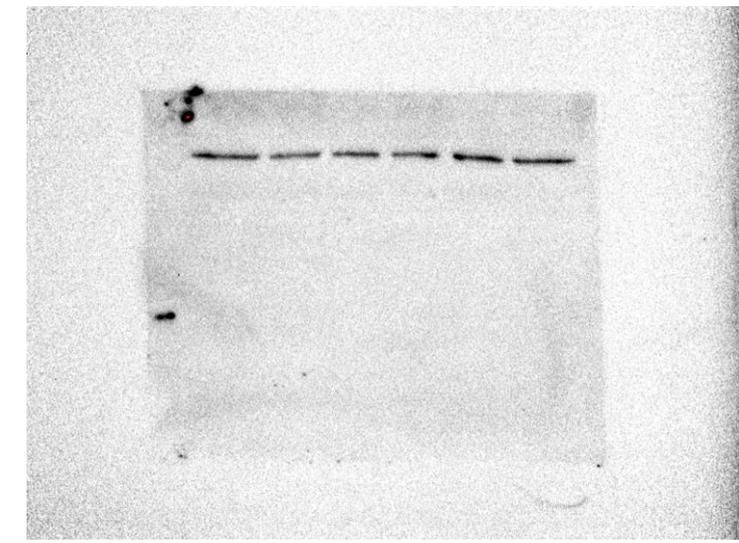
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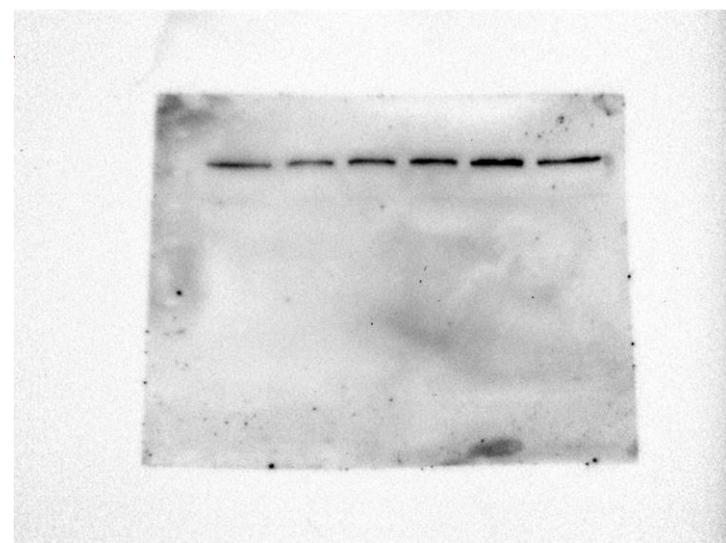
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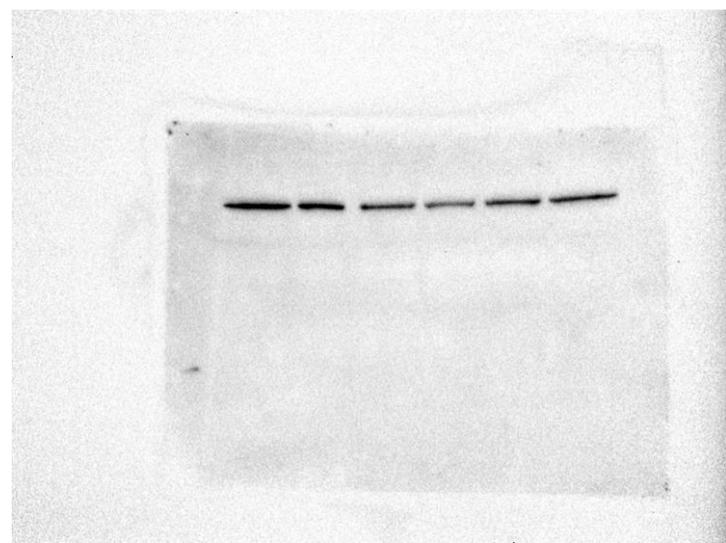
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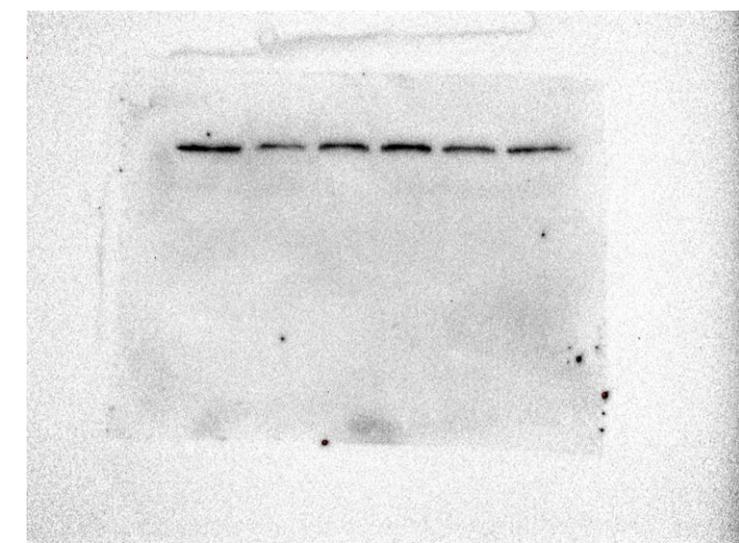
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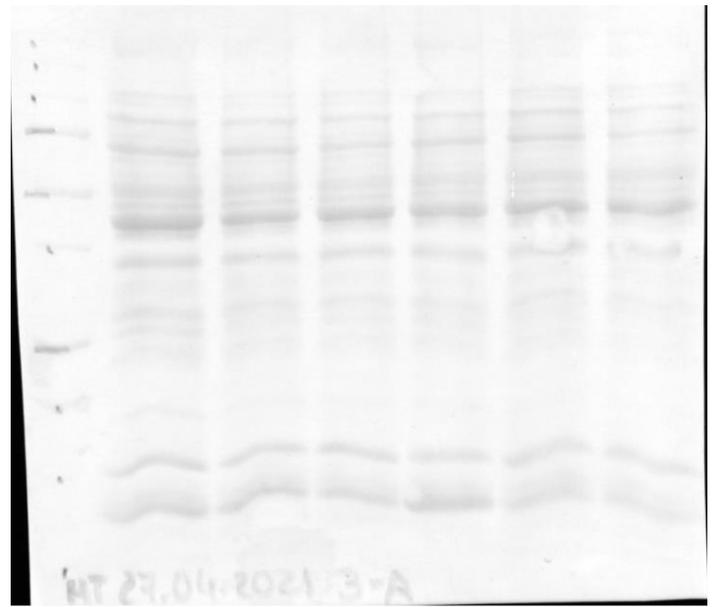
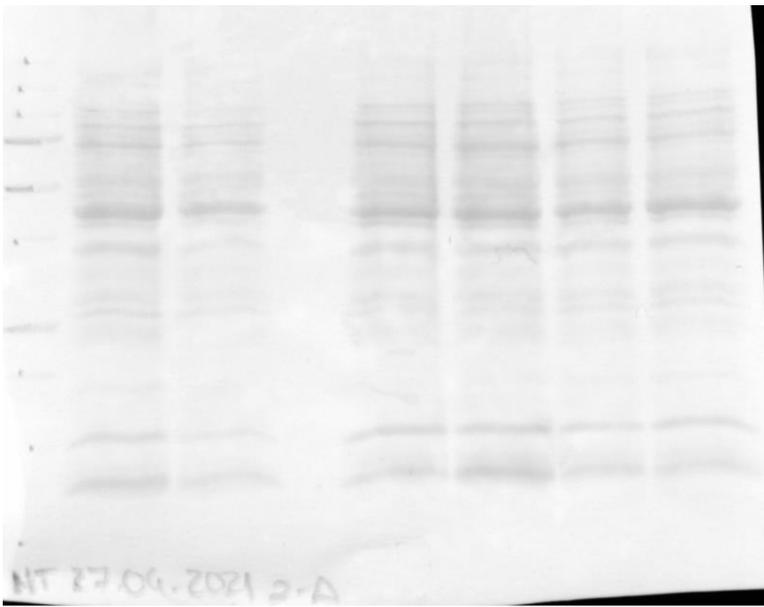
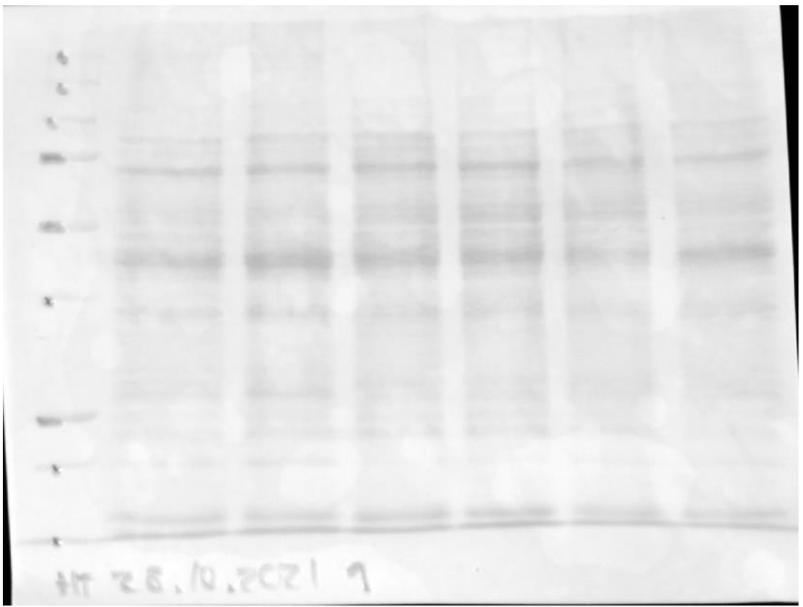
MWM: molecular weight marker

Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

PPAR α - PonceauS₁

2

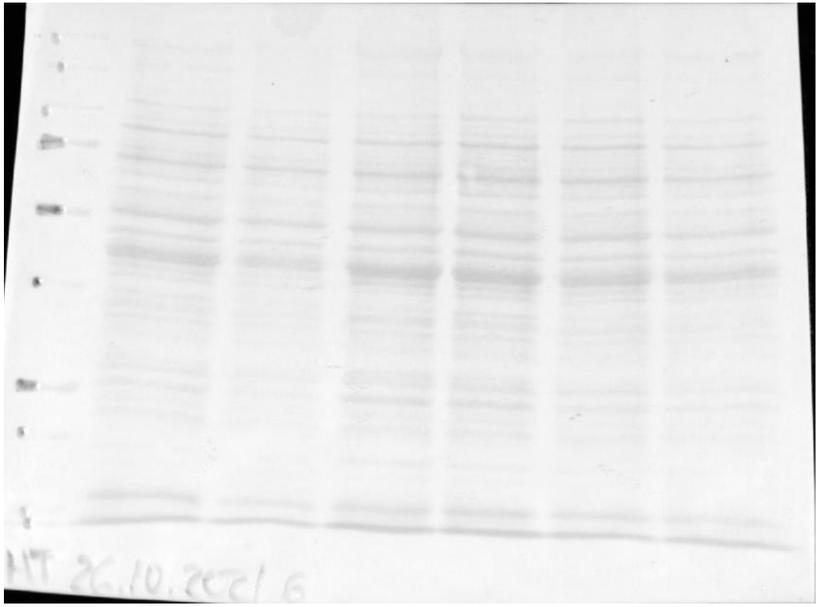
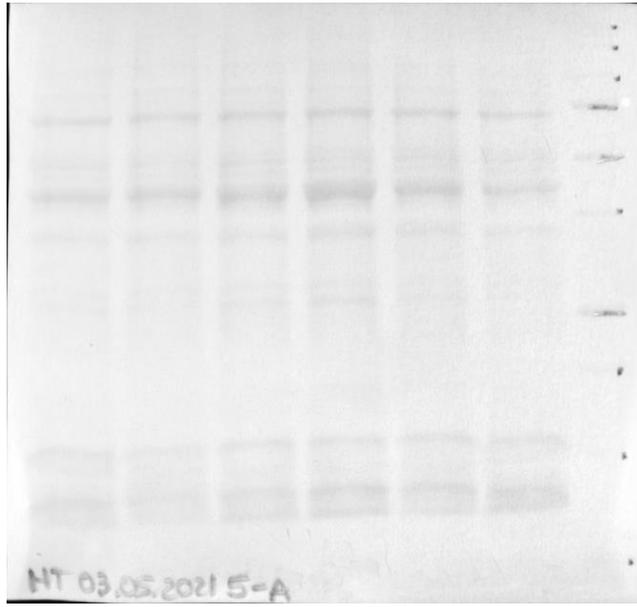
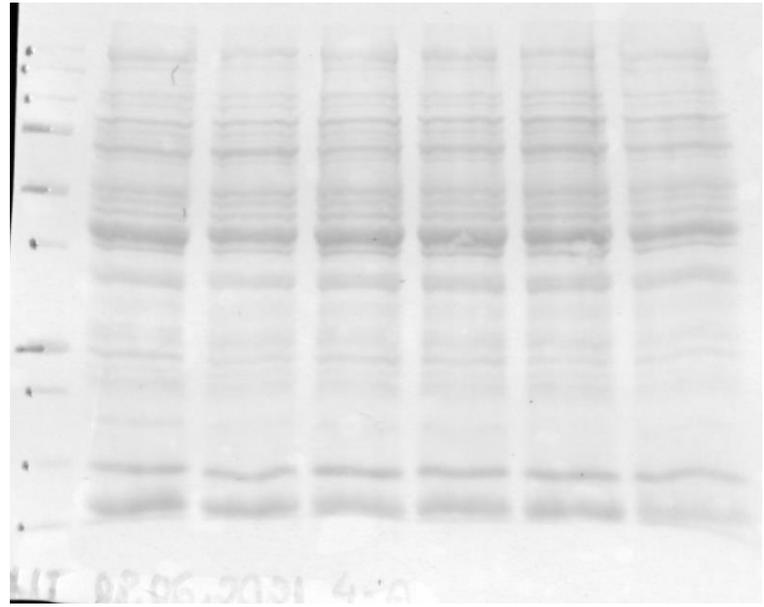
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4

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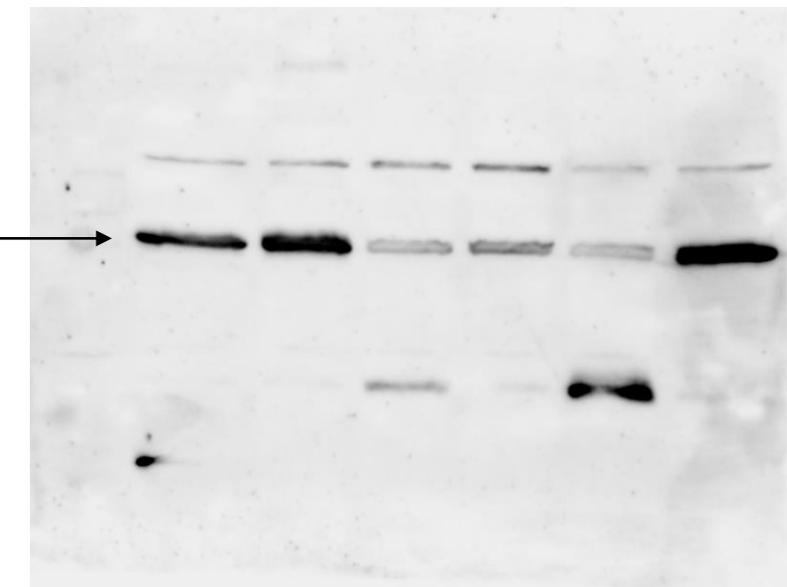


MWM: molecular weight marker

Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

PPAR α - Blot

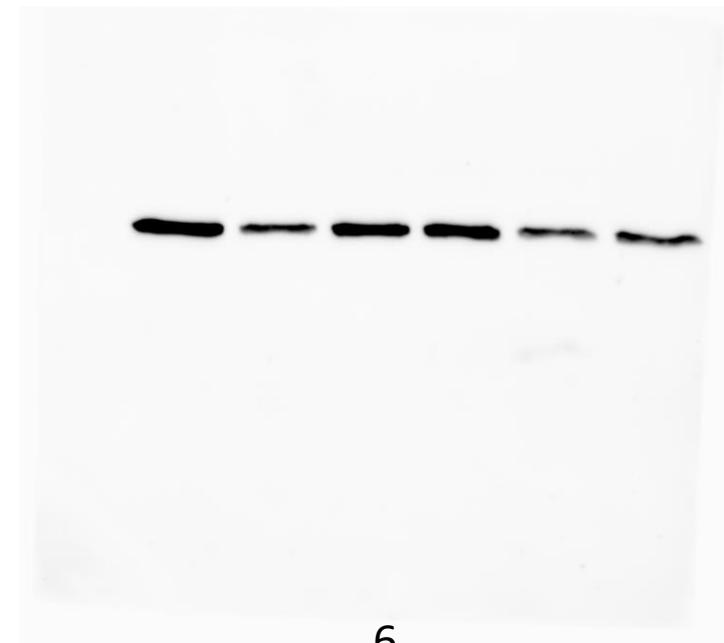
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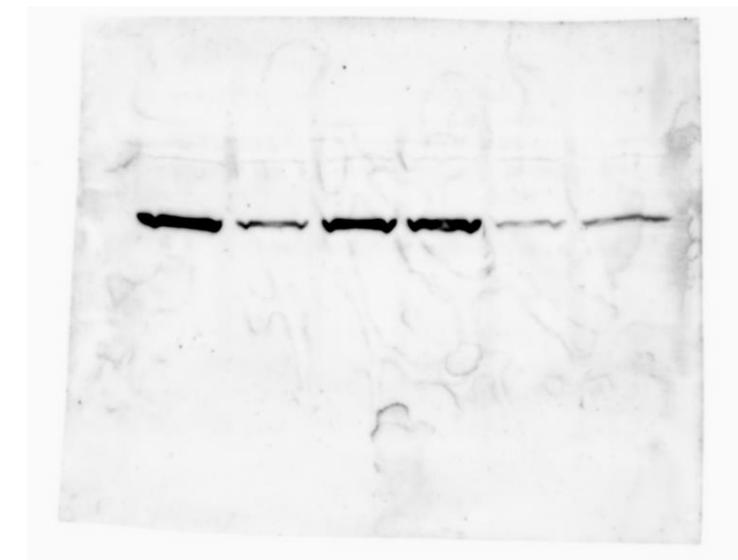
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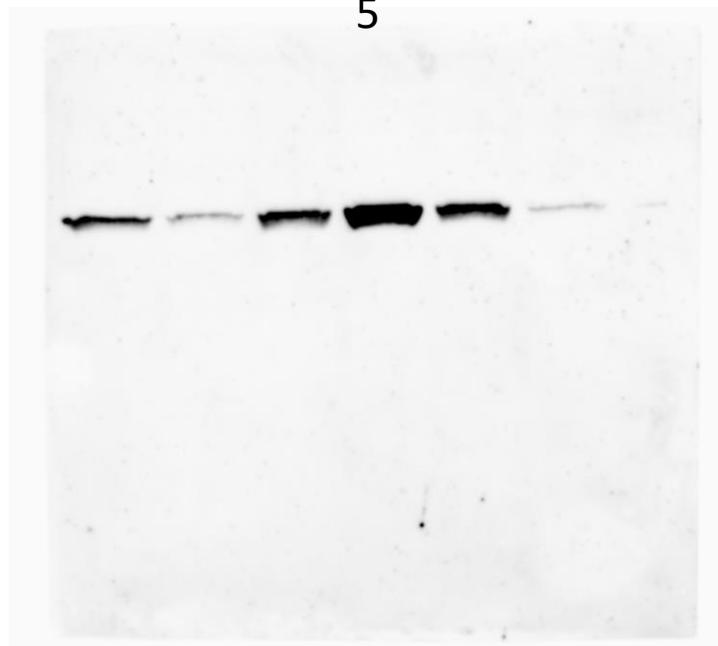
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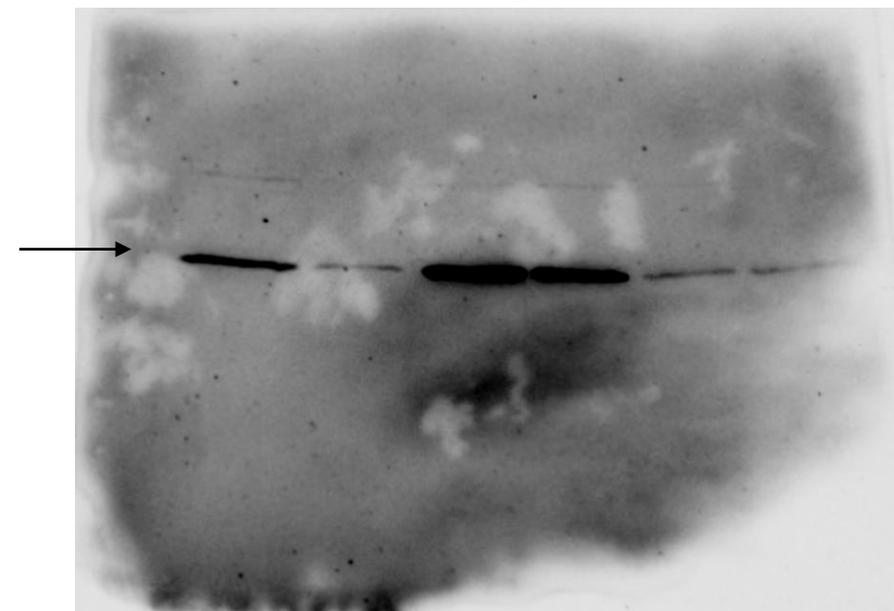
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5



6



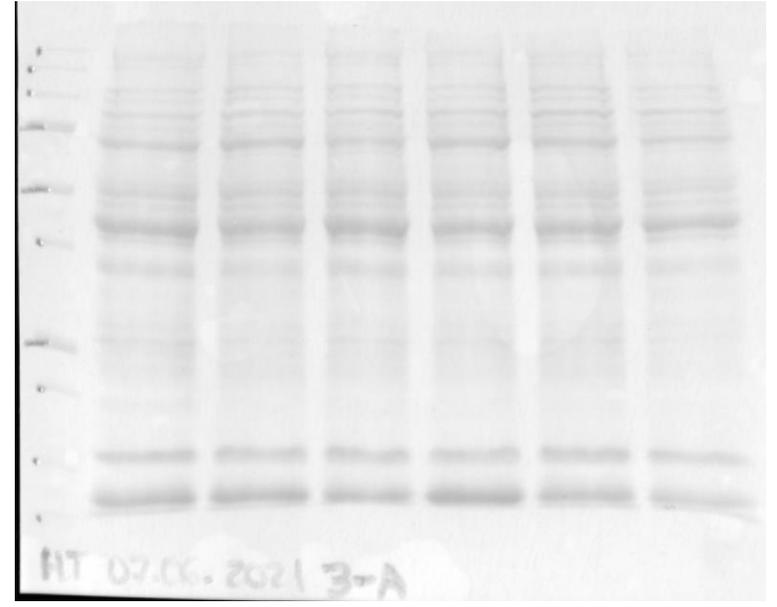
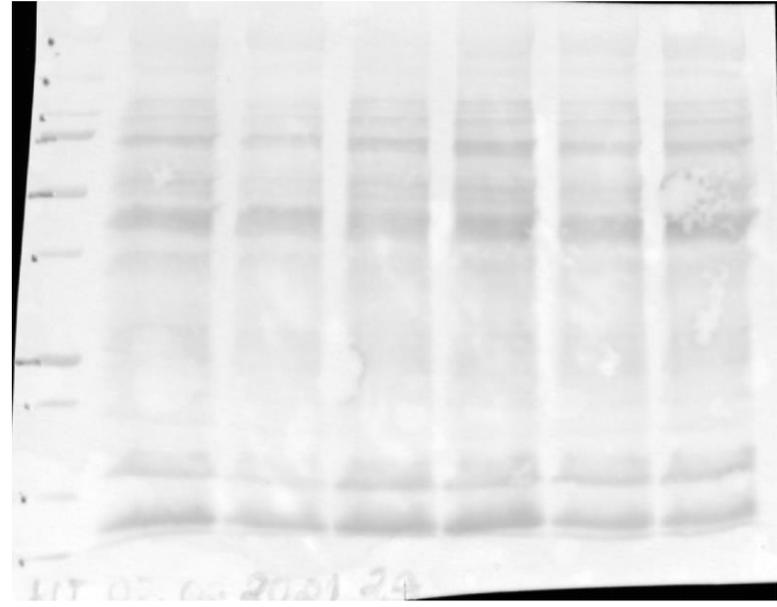
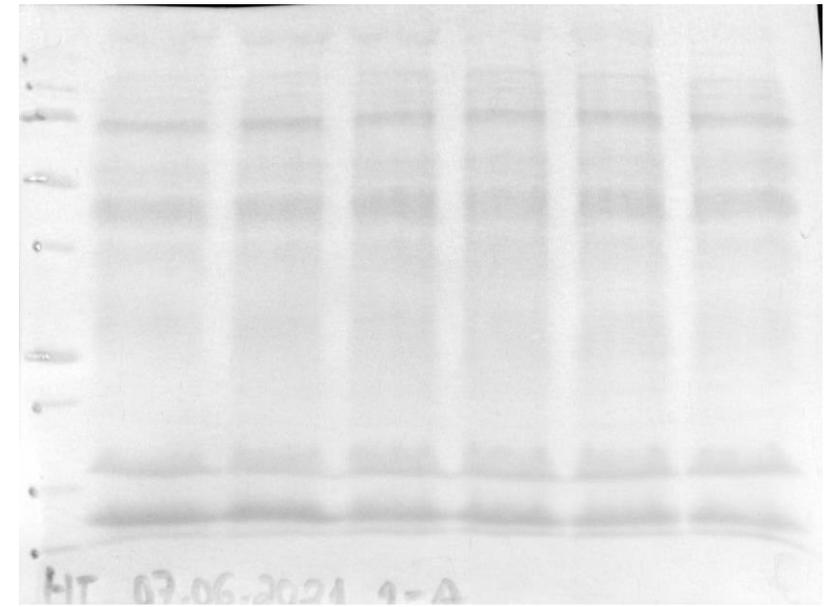
MWM: molecular weight marker

Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

PPAR γ - PonceauS₁

2

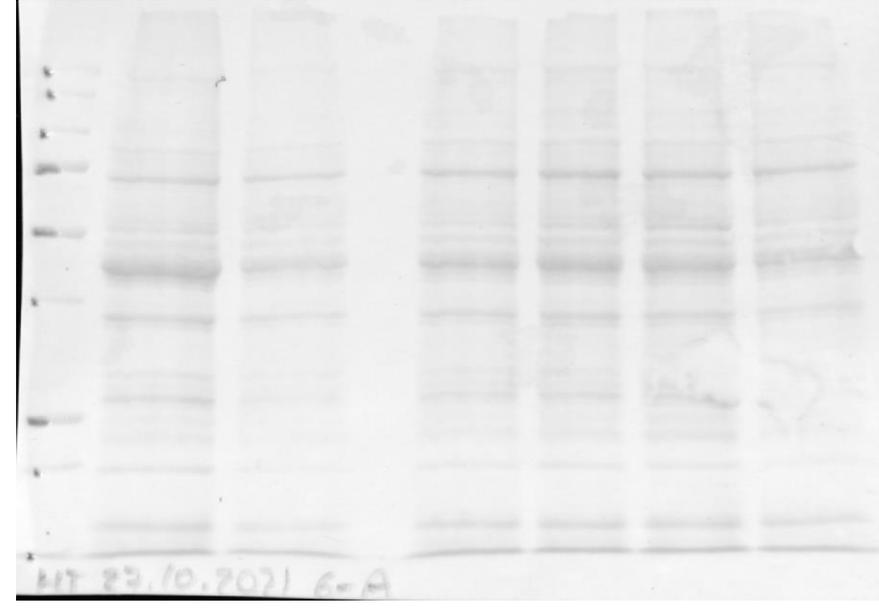
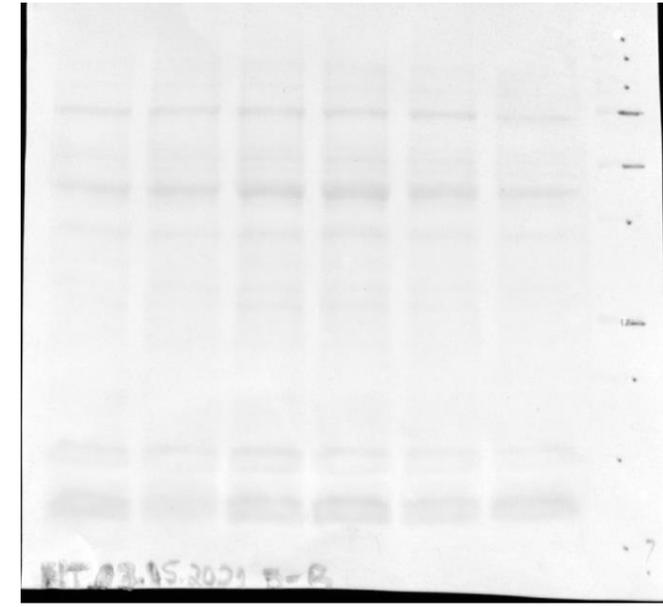
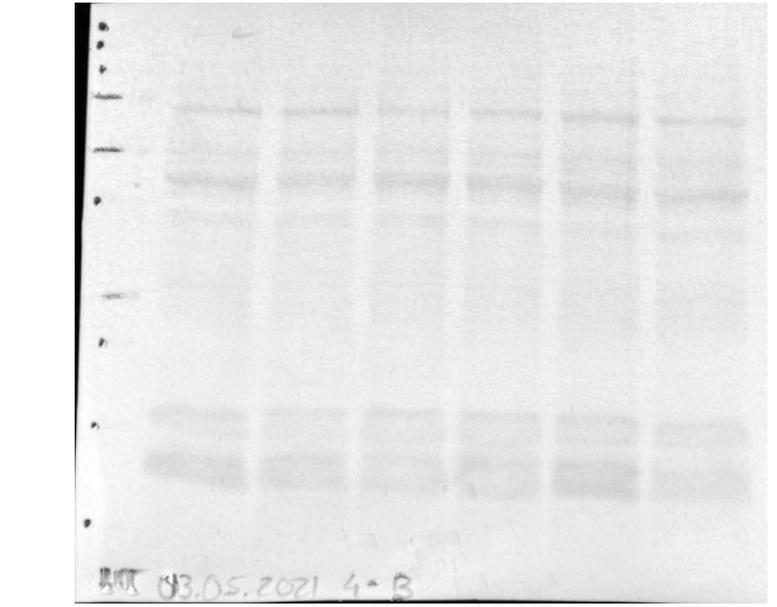
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4

5

6

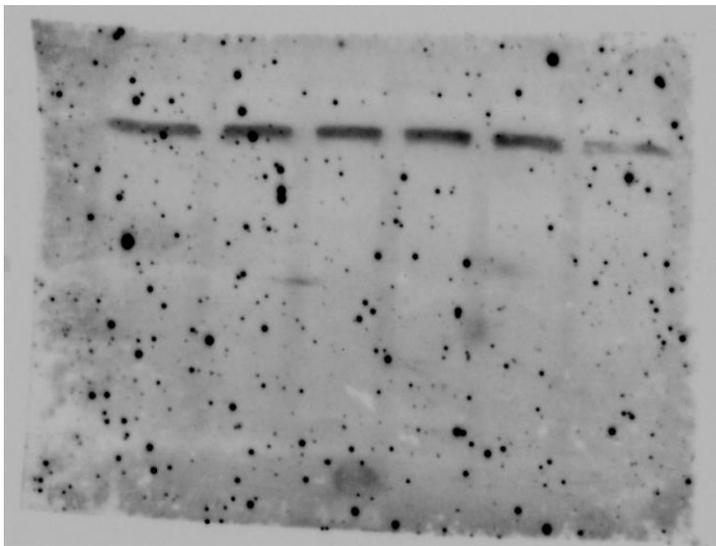


MWM: molecular weight marker

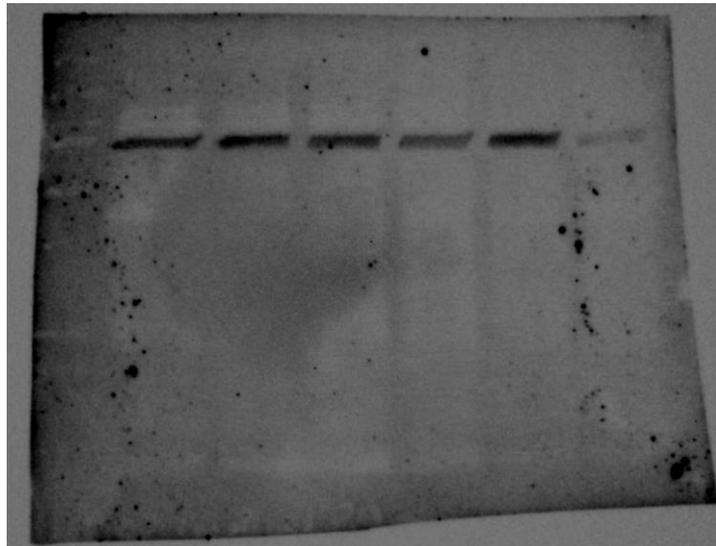
Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

PPAR γ - Blot

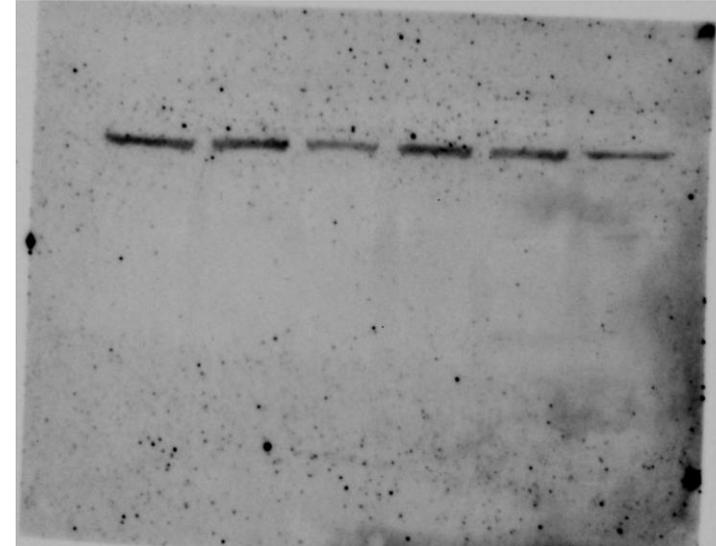
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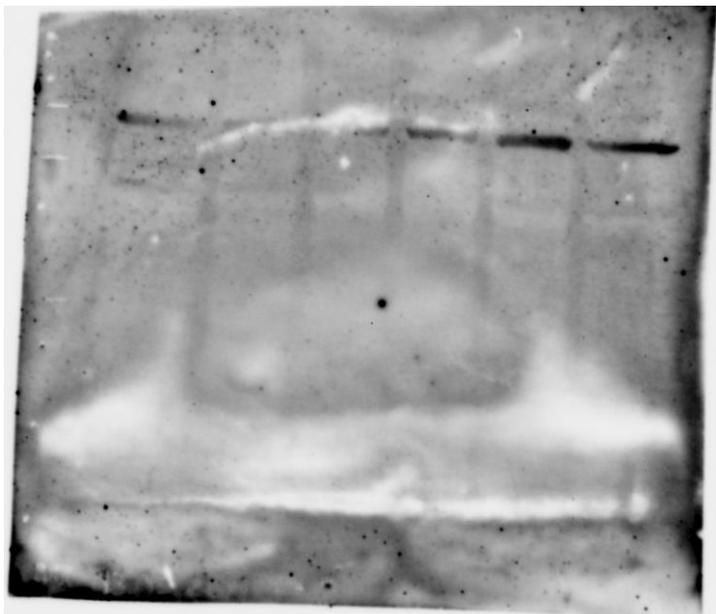
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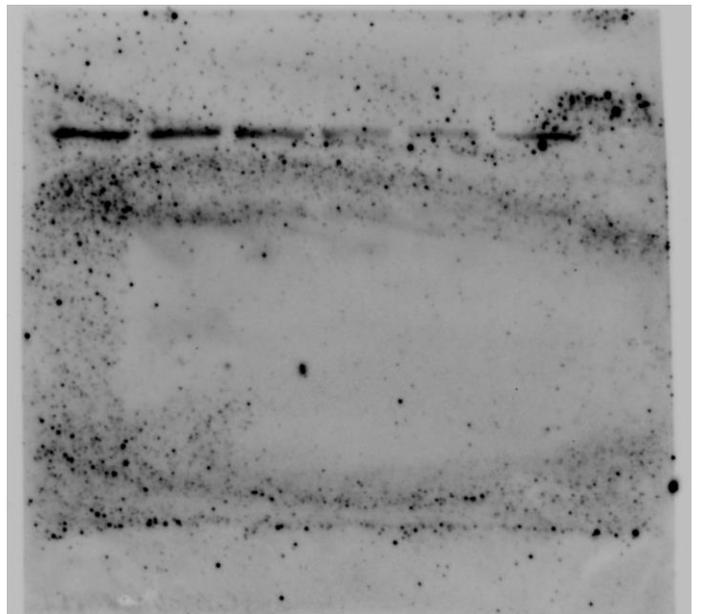
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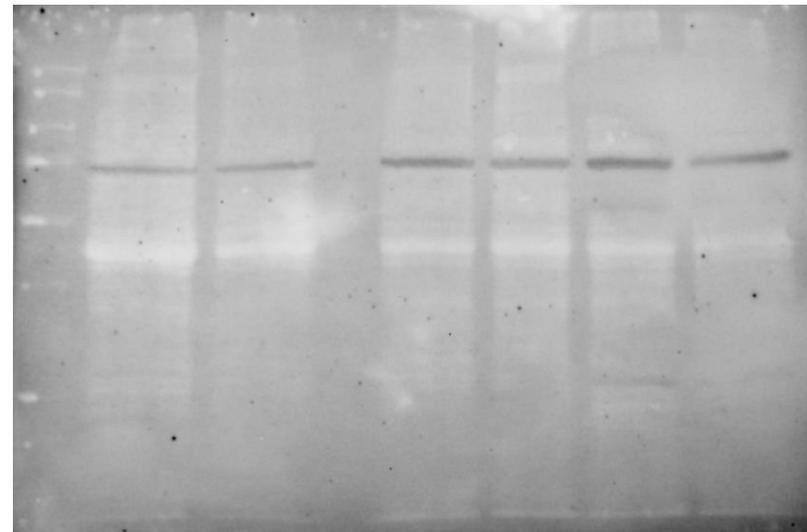
4



5



6

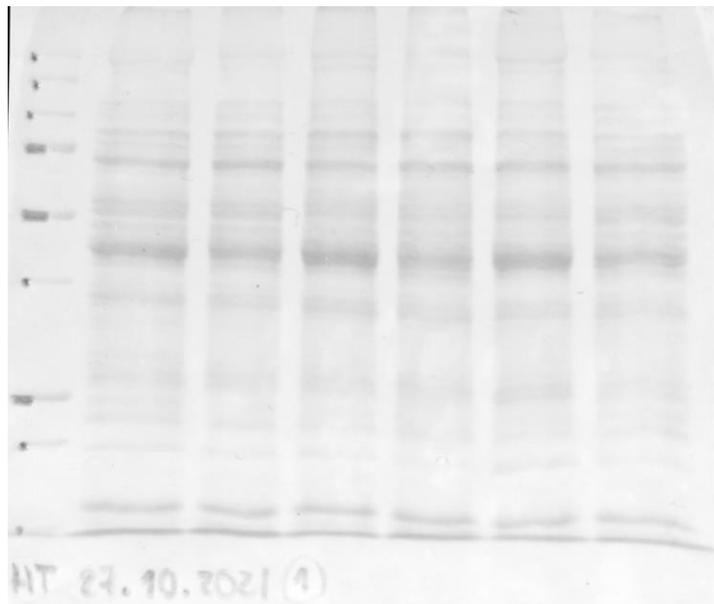


MWM: molecular weight marker

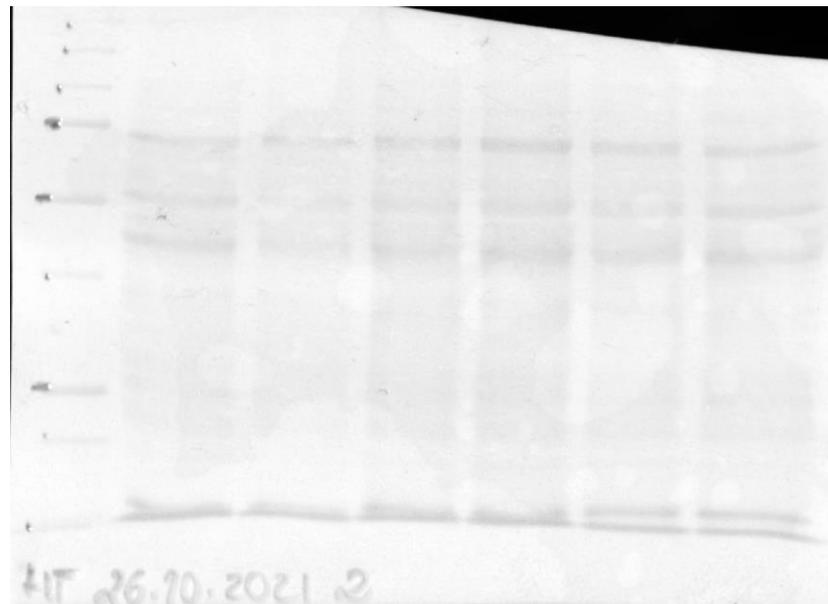
Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

GSK-3 β - Ponceau S

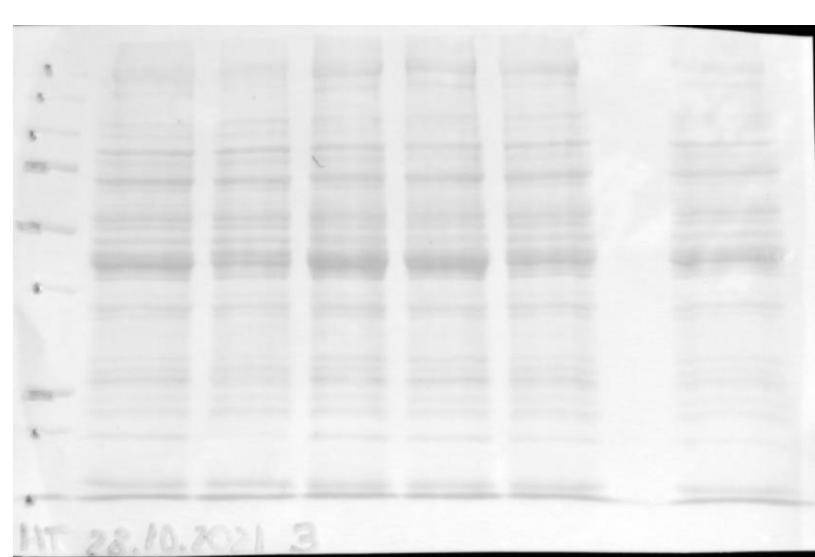
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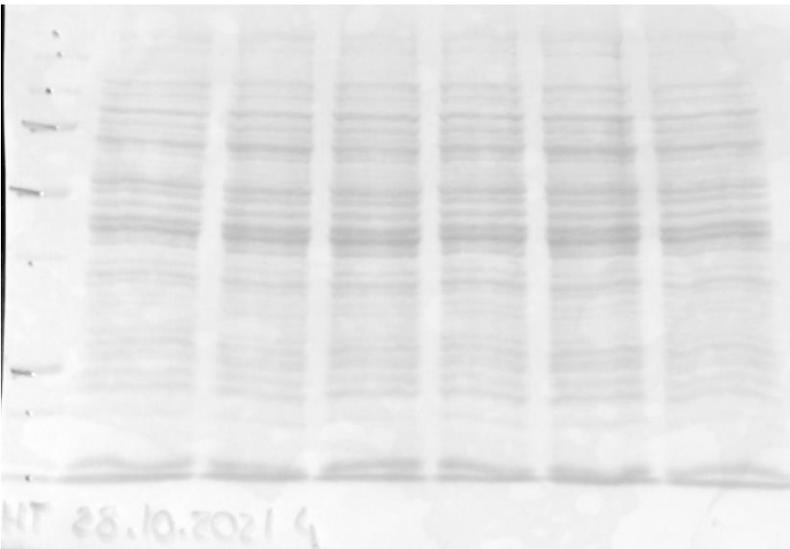
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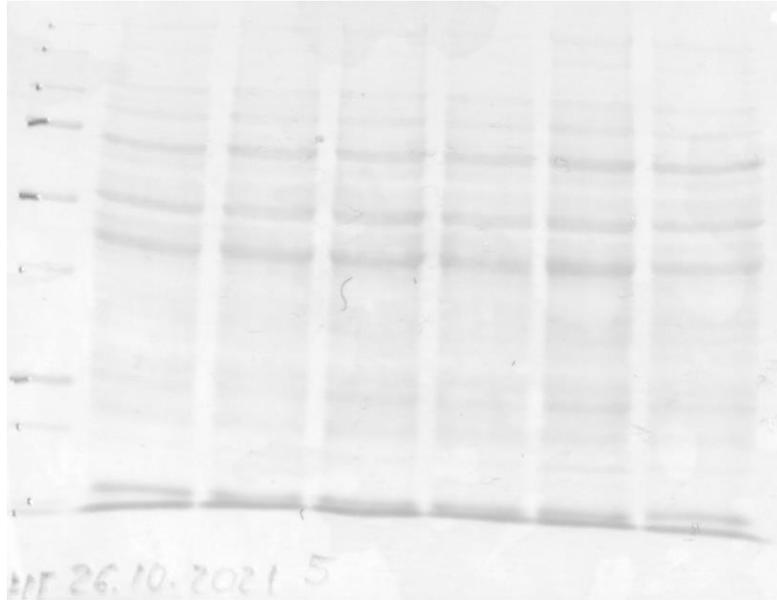
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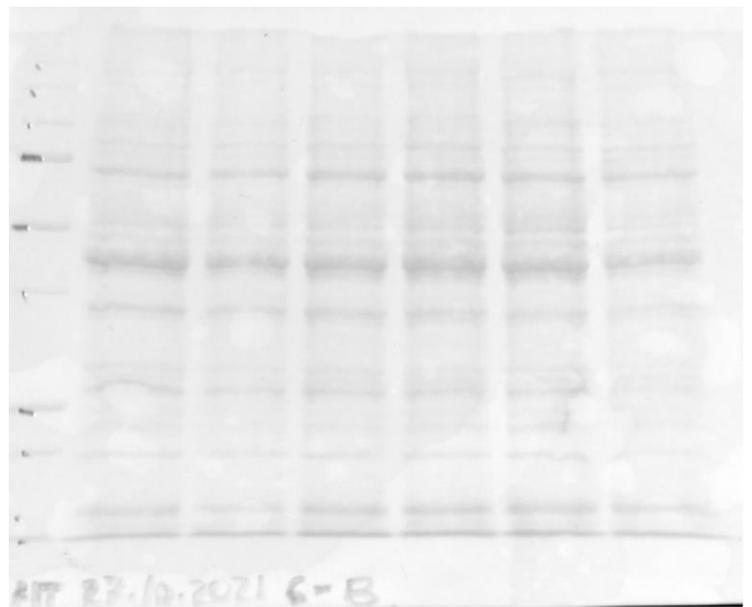
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5



6

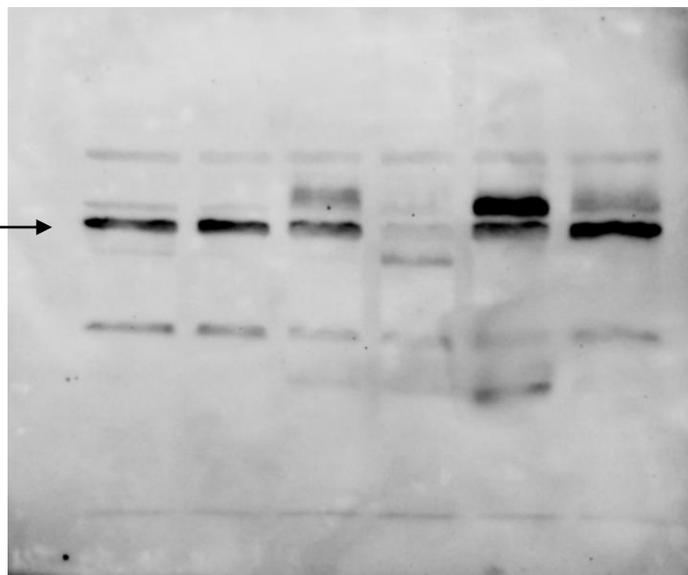


MWM: molecular weight marker

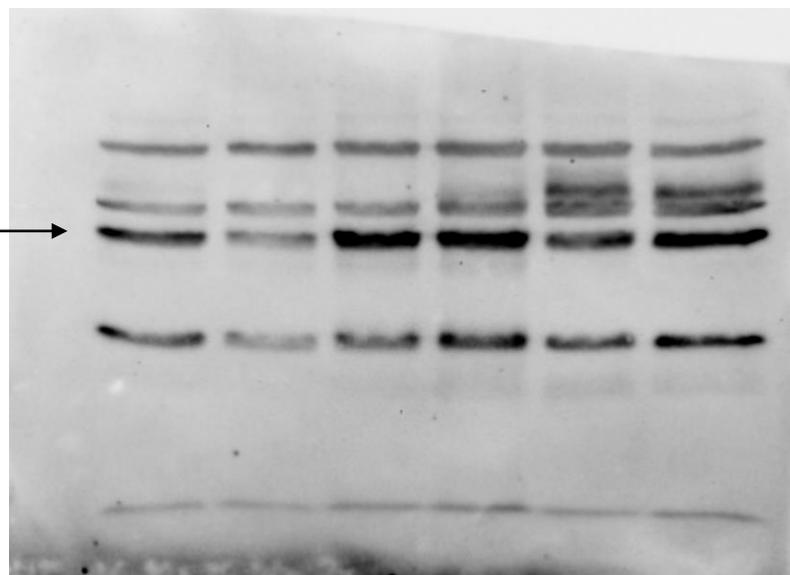
Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

GSK-3 β - Blot

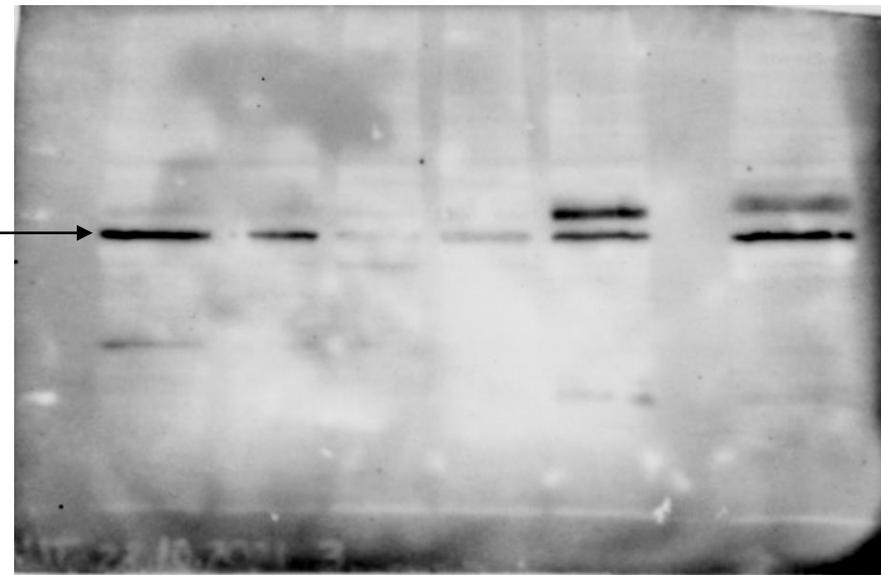
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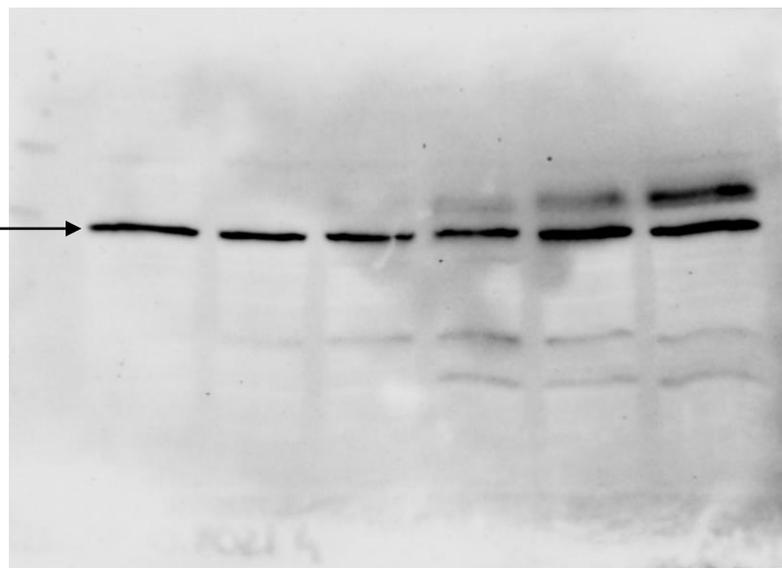
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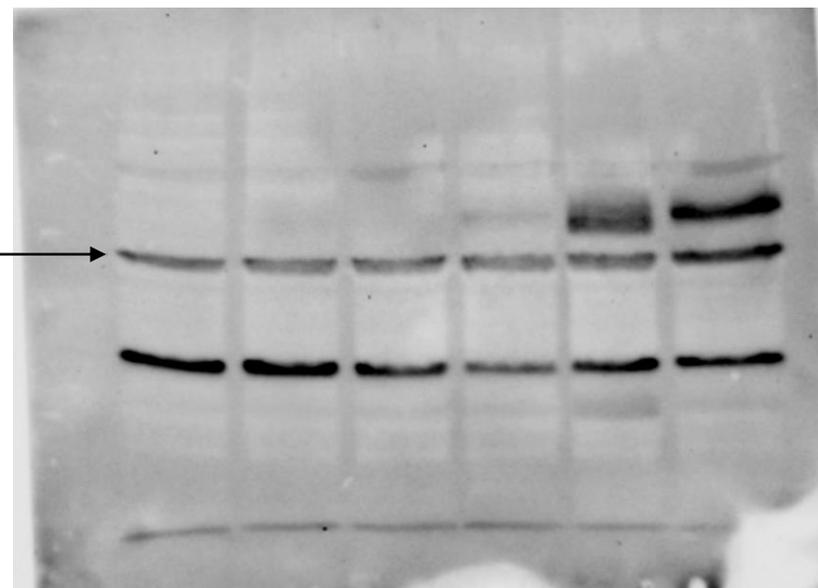
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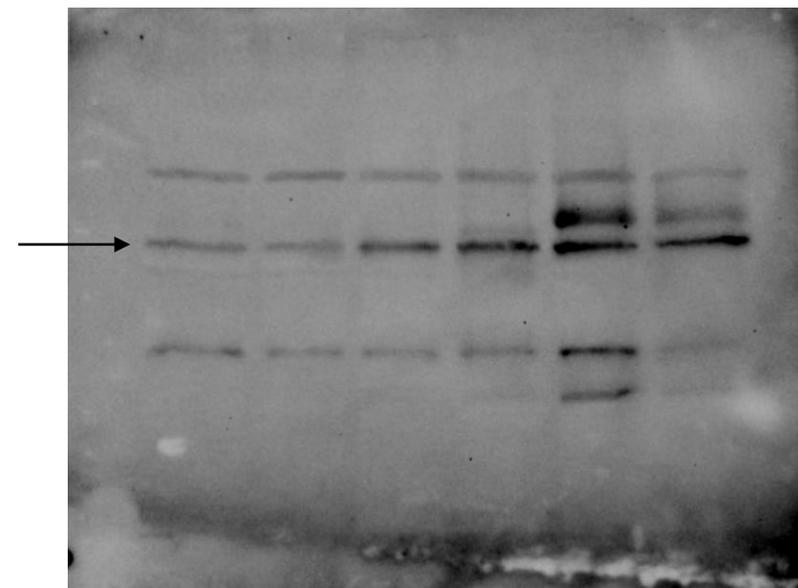
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5



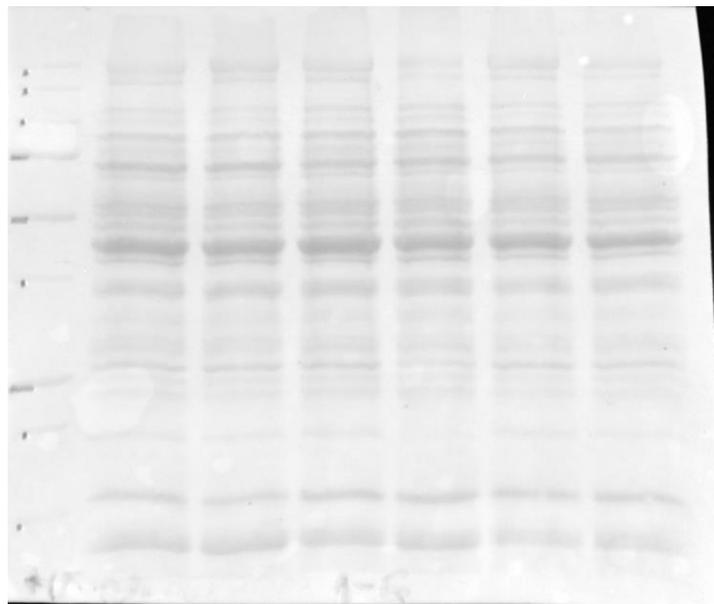
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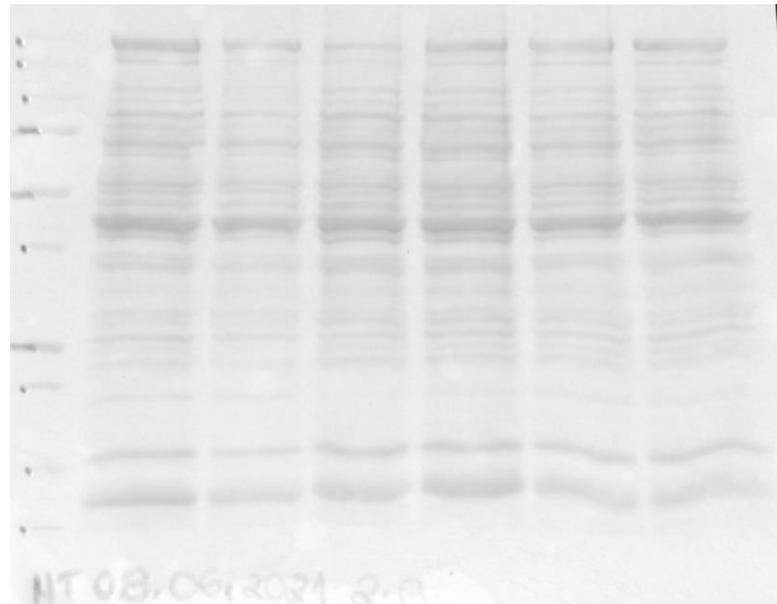
MWM: molecular weight marker

Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

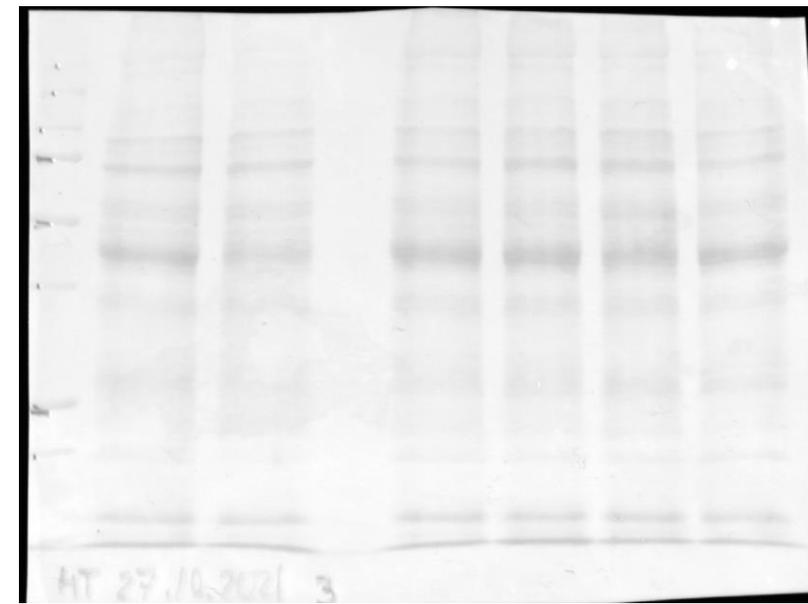
AMPK - PonceauS₁



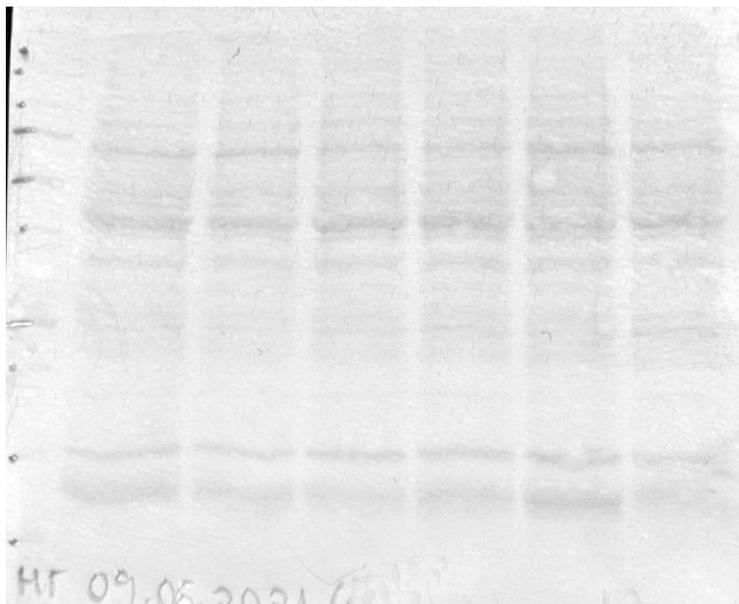
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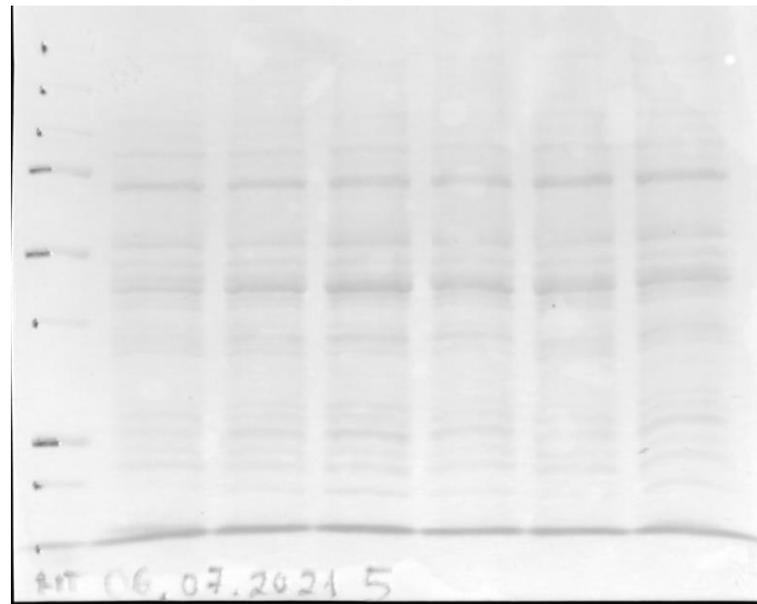
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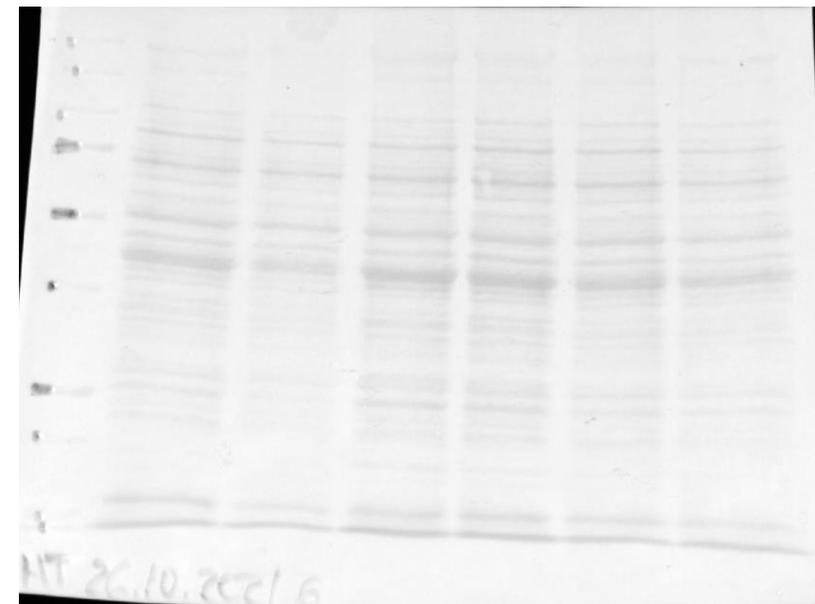
4



5



6

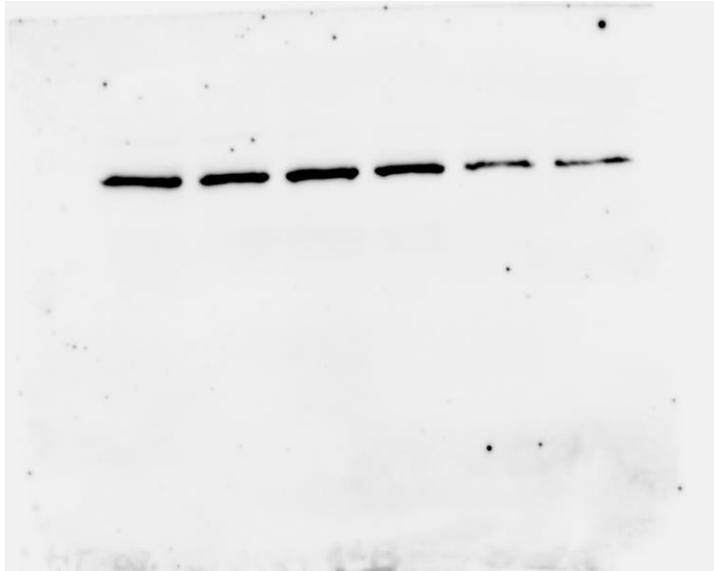


MWM: molecular weight marker

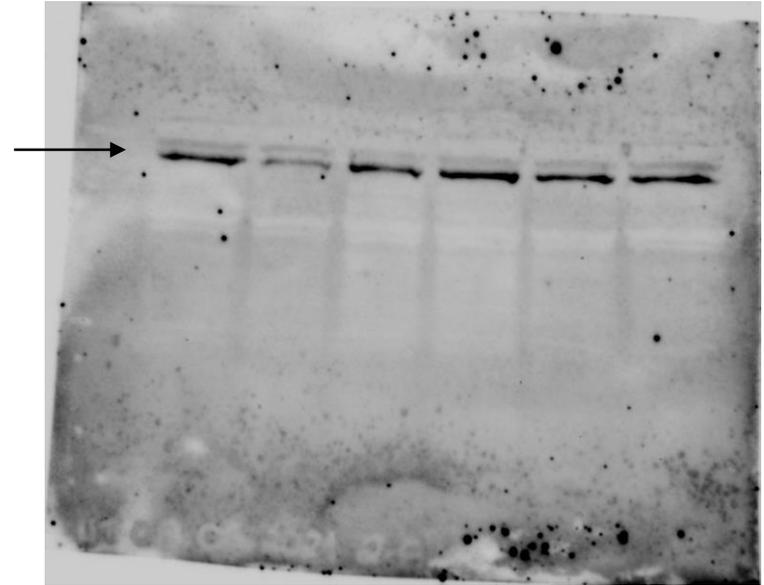
Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

AMPK - Blot

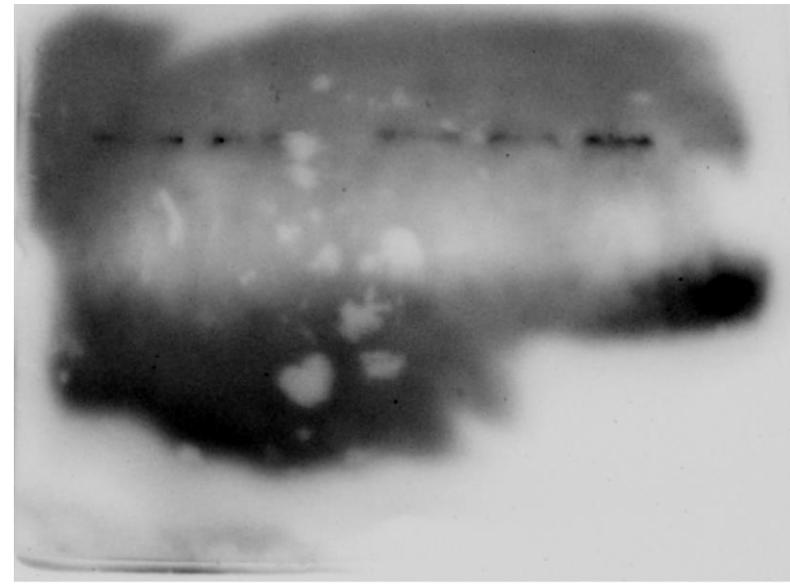
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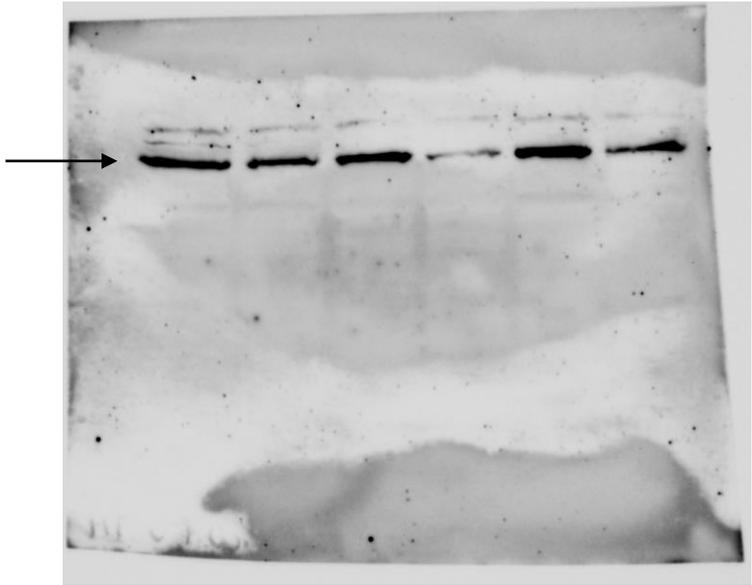
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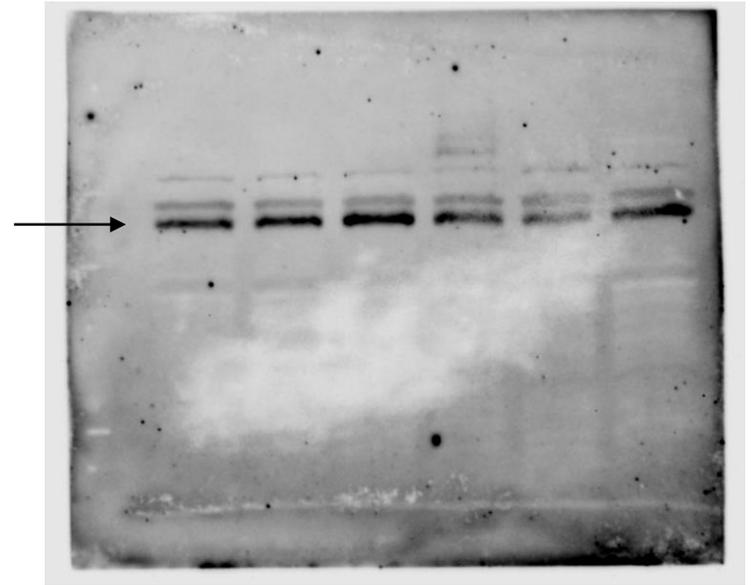
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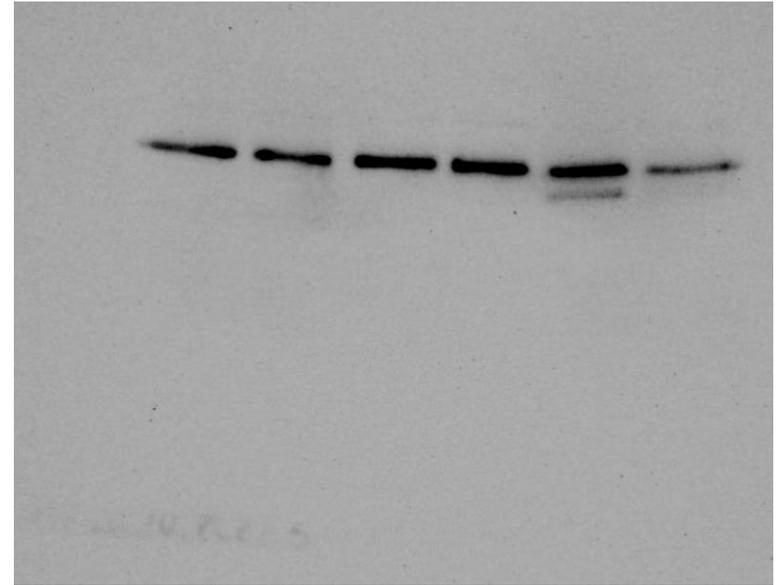
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5



6

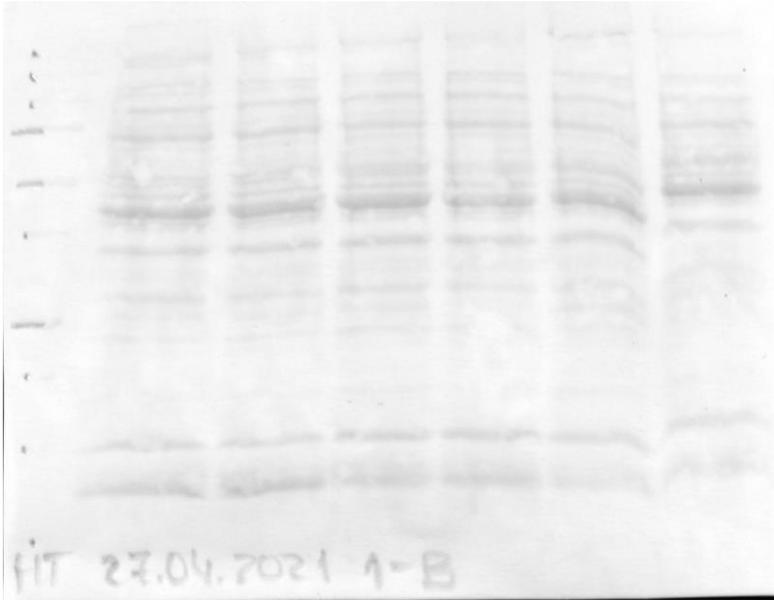


MWM: molecular weight marker

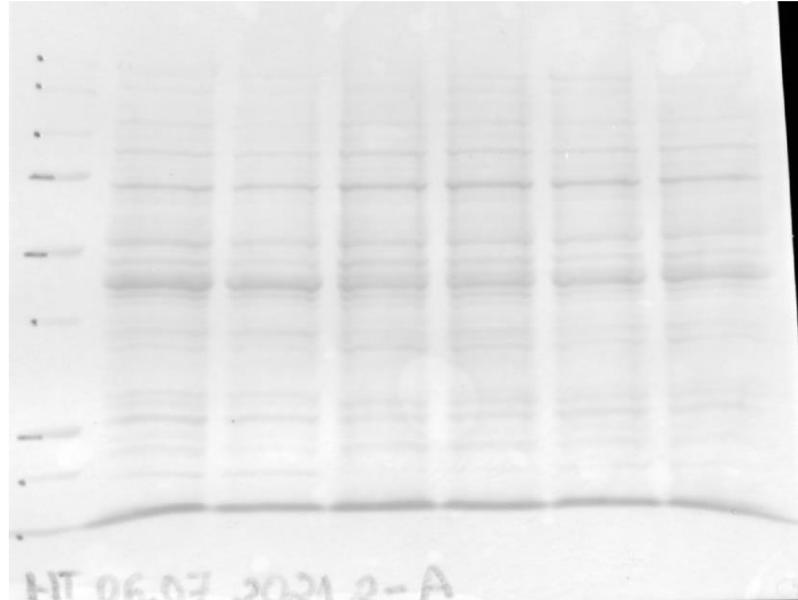
Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

pAMPK - PonceauS

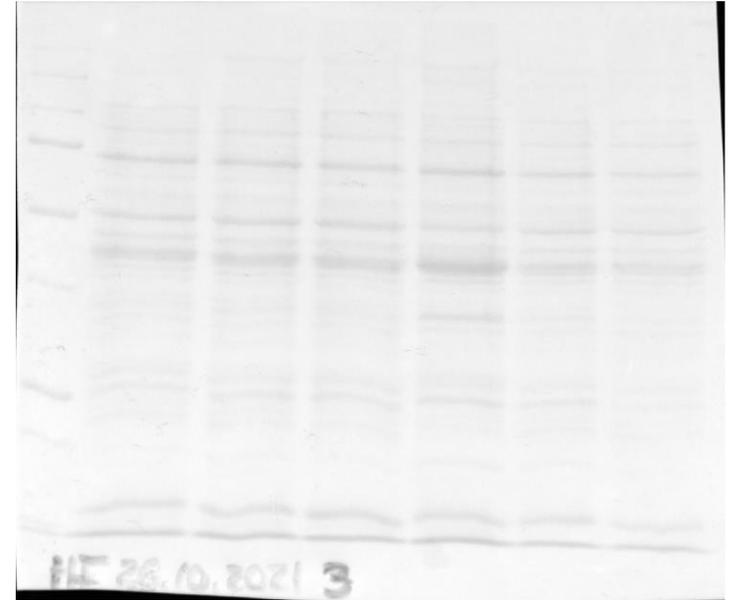
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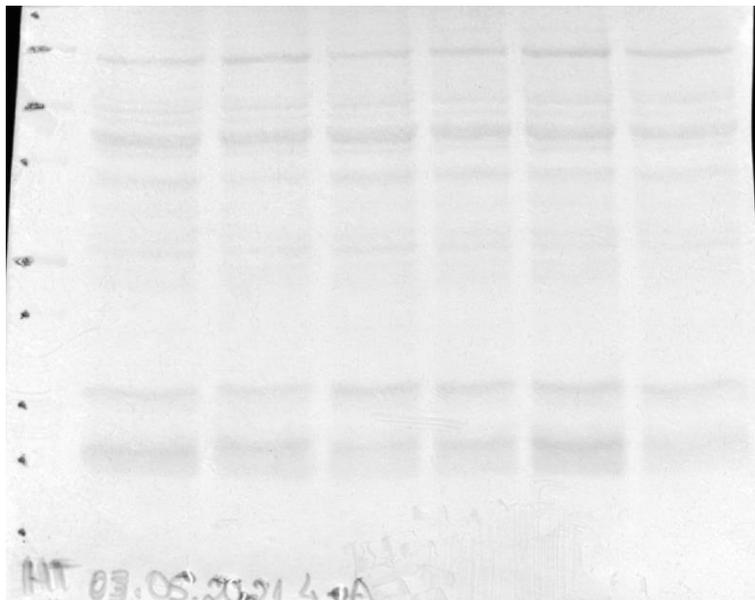
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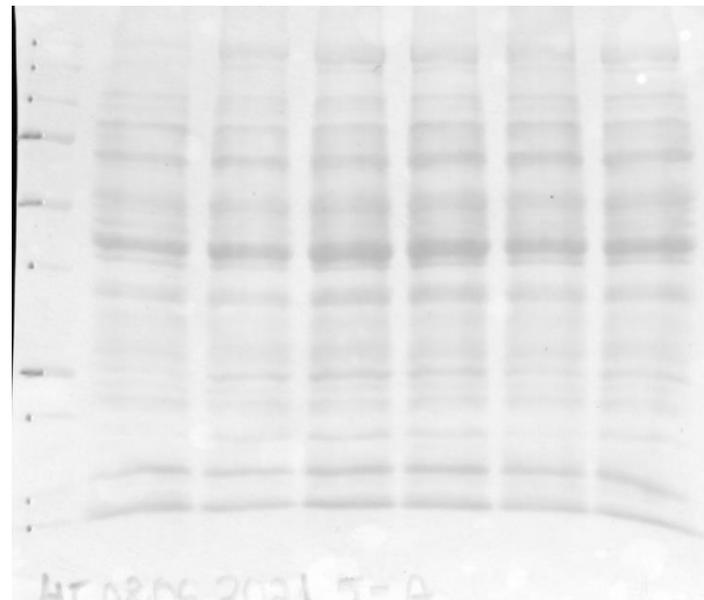
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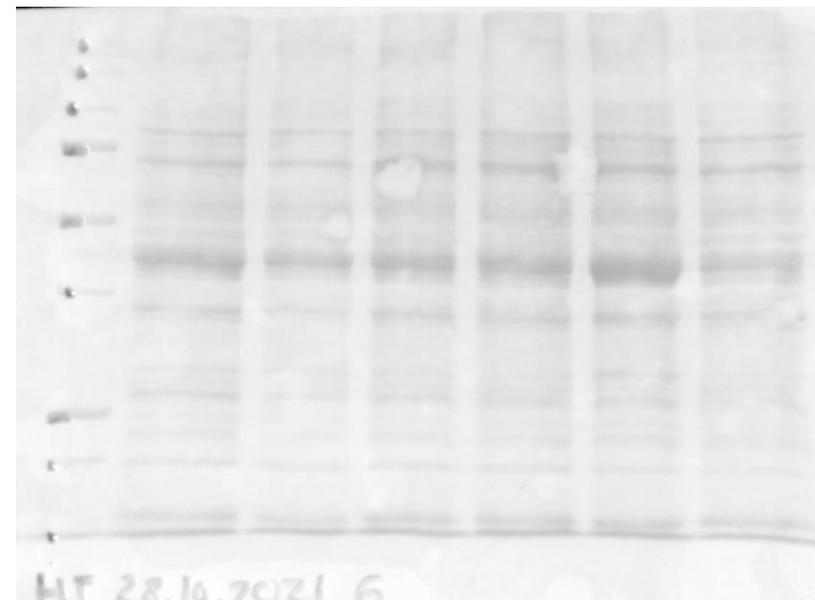
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6

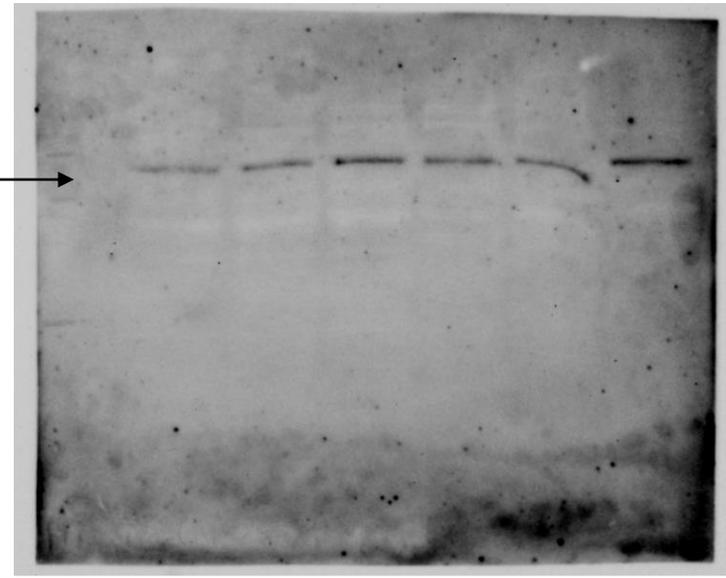


MWM: molecular weight marker

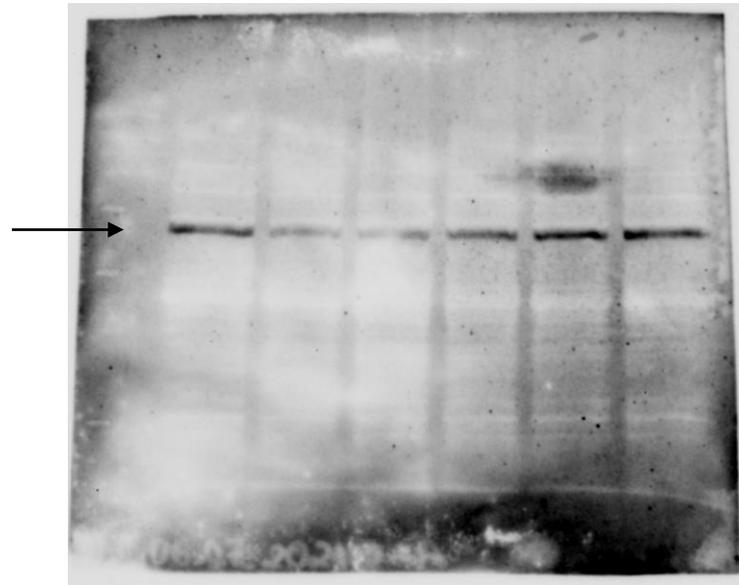
Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

pAMPK - Blot

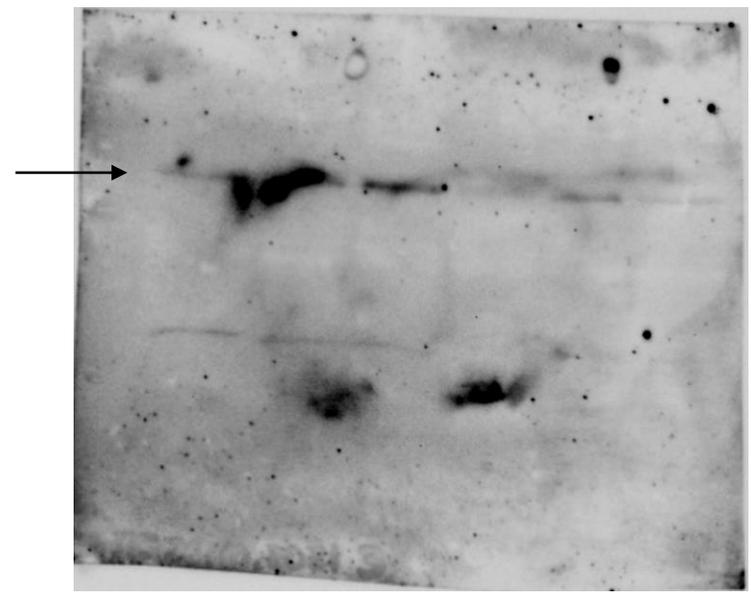
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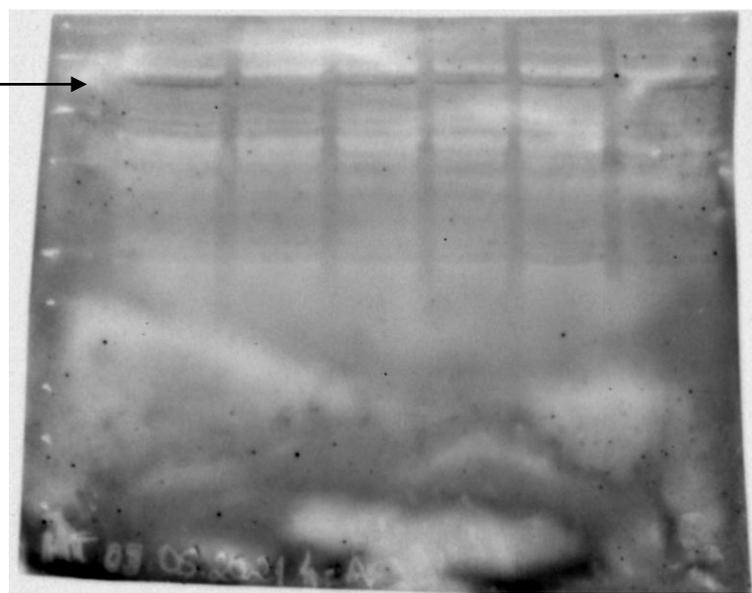
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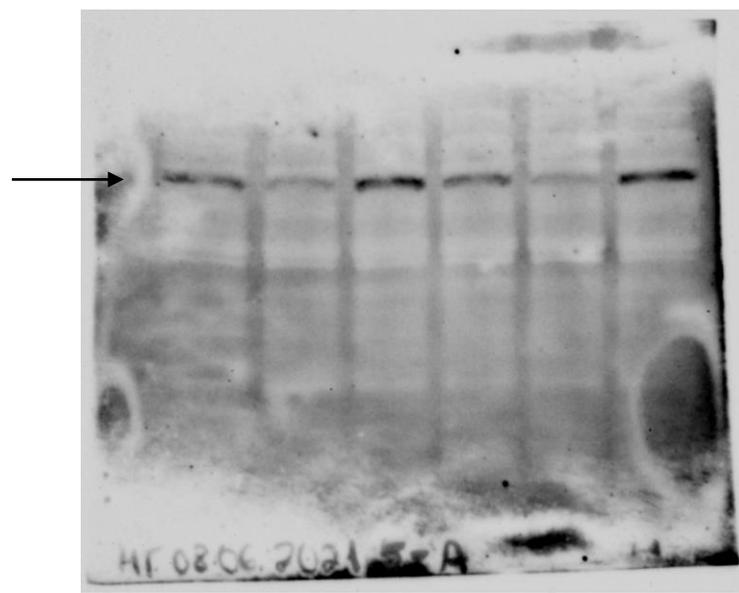
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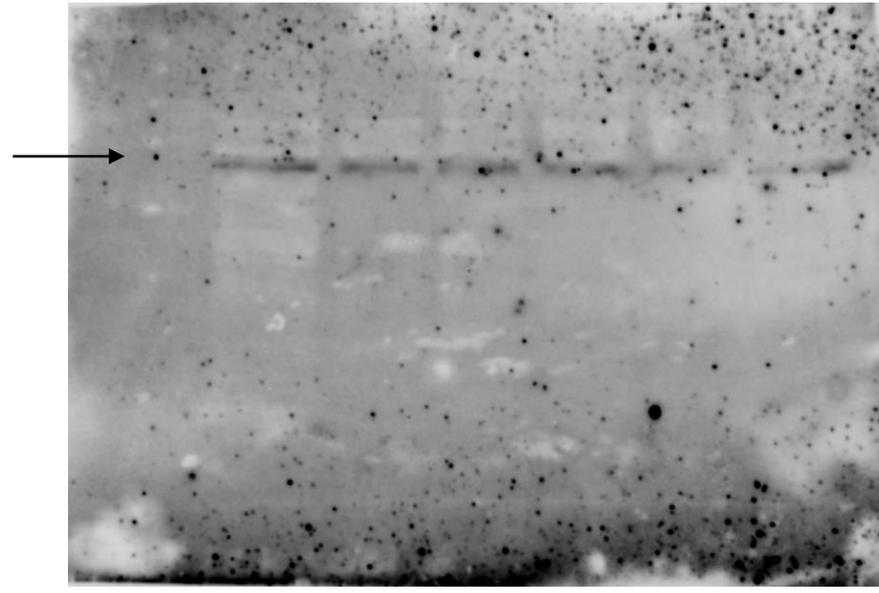
4



5



6

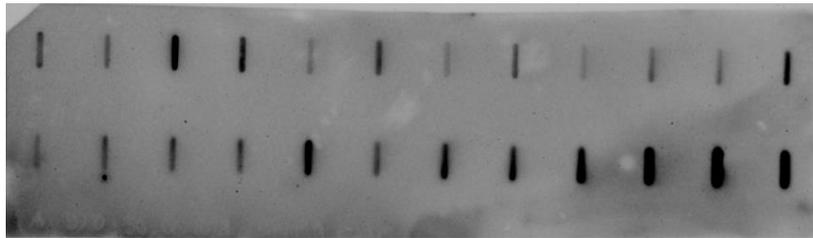


MWM: molecular weight marker

Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

DNP (protein carbonyl levels) - cardiac

Blot



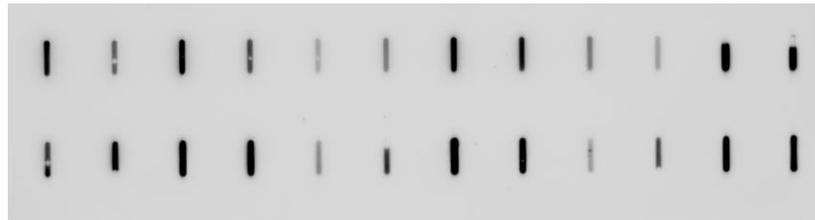
Samples order from upper left corner: CTRL1-1 | DOX1-1 | CTRL2-1 | DOX2-1 | CTRL1-2 | DOX1-2 | CTRL2-2 | DOX2-2 | CTRL1-3 | DOX1-3 | CTRL2-3 | DOX2-3
CTRL1-4 | DOX1-4 | CTRL2-4 | DOX2-4 | CTRL1-5 | DOX1-5 | CTRL2-5 | DOX2-5 | CTRL1-6 | DOX1-6 | CTRL2-6 | DOX2-6

Nitrotyrosine - cardiac

PonceauS



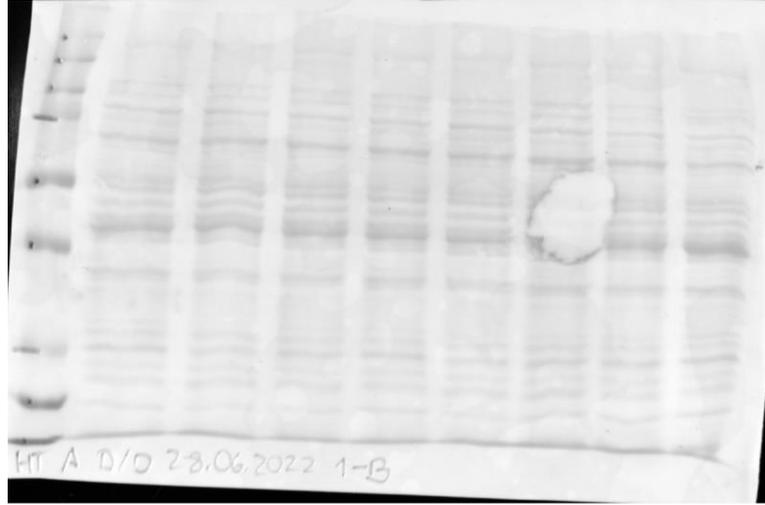
Blot



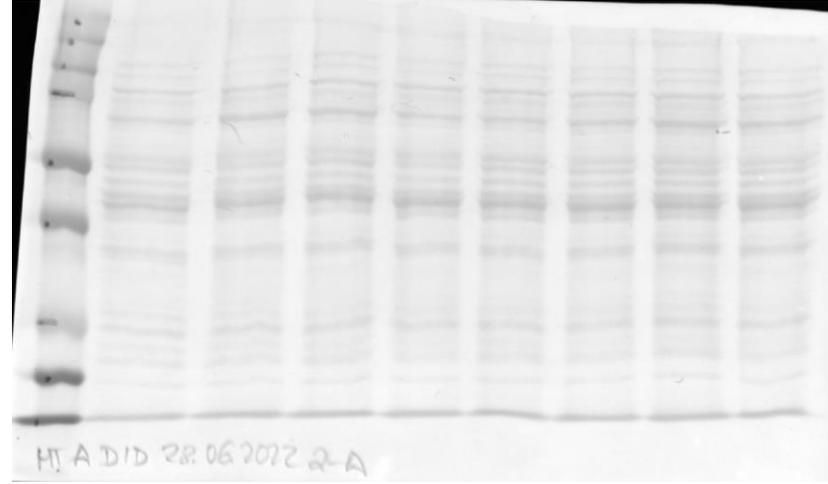
Samples order from upper left corner: CTRL1-1 | DOX1-1 | CTRL2-1 | DOX2-1 | CTRL1-2 | DOX1-2 | CTRL2-2 | DOX2-2 | CTRL1-3 | DOX1-3 | CTRL2-3 | DOX2-3
CTRL1-4 | DOX1-4 | CTRL2-4 | DOX2-4 | CTRL1-5 | DOX1-5 | CTRL2-5 | DOX2-5 | CTRL1-6 | DOX1-6 | CTRL2-6 | DOX2-6

MnSOD - PonceauS

1



2



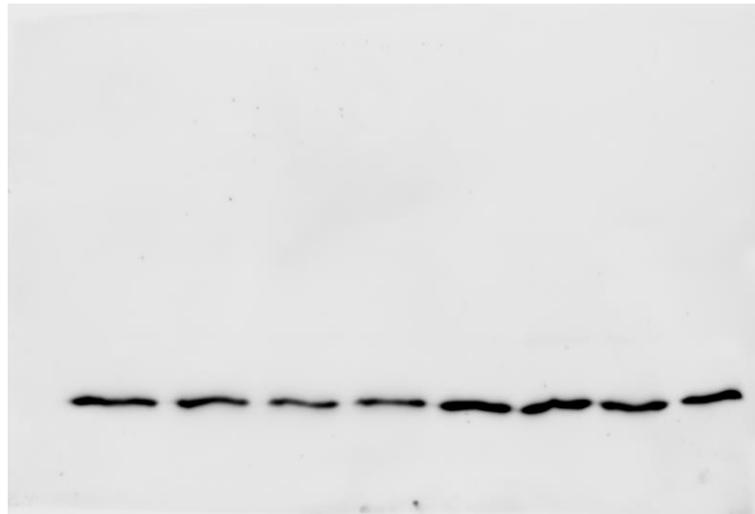
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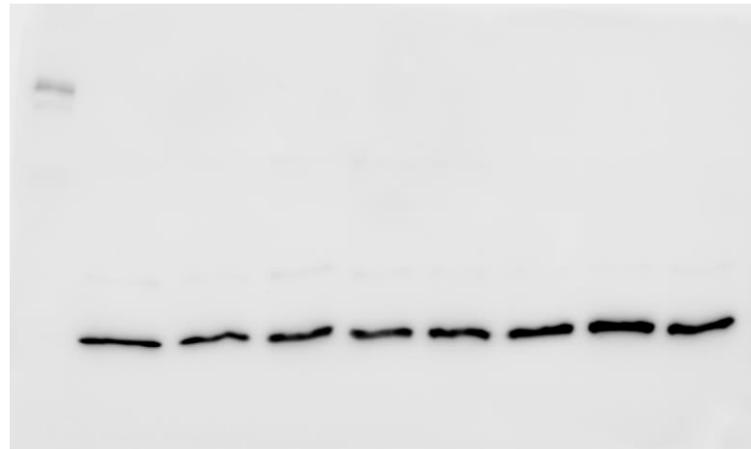
Samples order from the left in each of the 3 membranes: MWM | CTRL1-1 | DOX1-1 | CTRL2-1 | DOX2-1 | CTRL1-2 | DOX1-2 | CTRL2-2 | DOX2-2
MWM: molecular weight marker

MnSOD - Blot

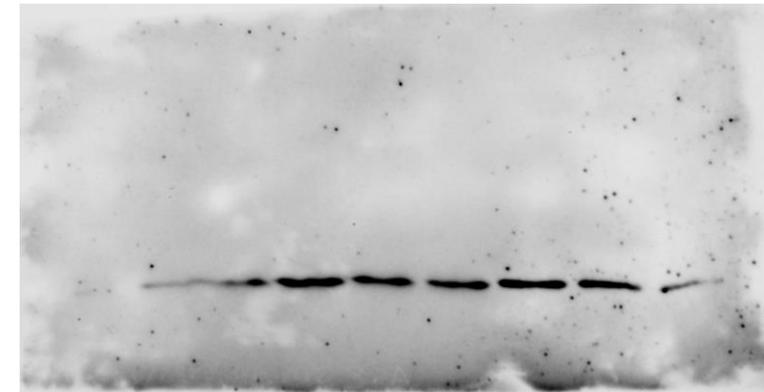
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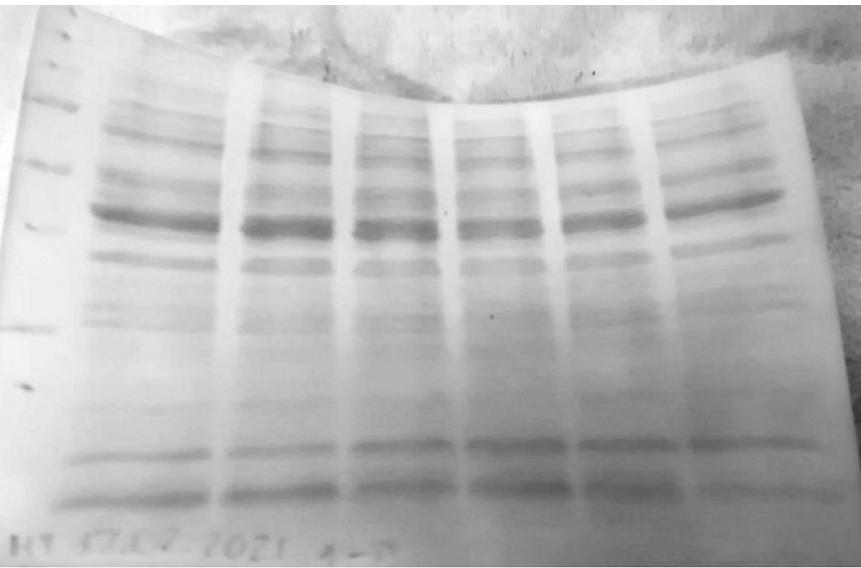
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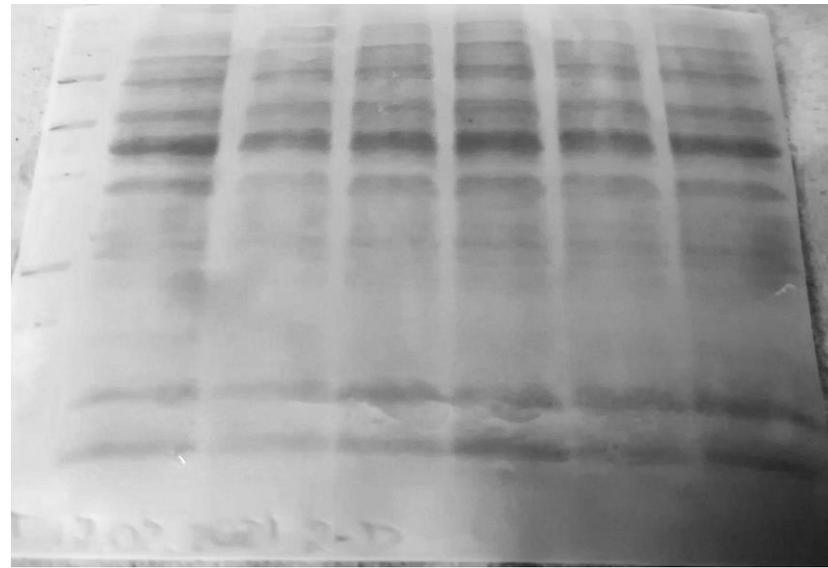
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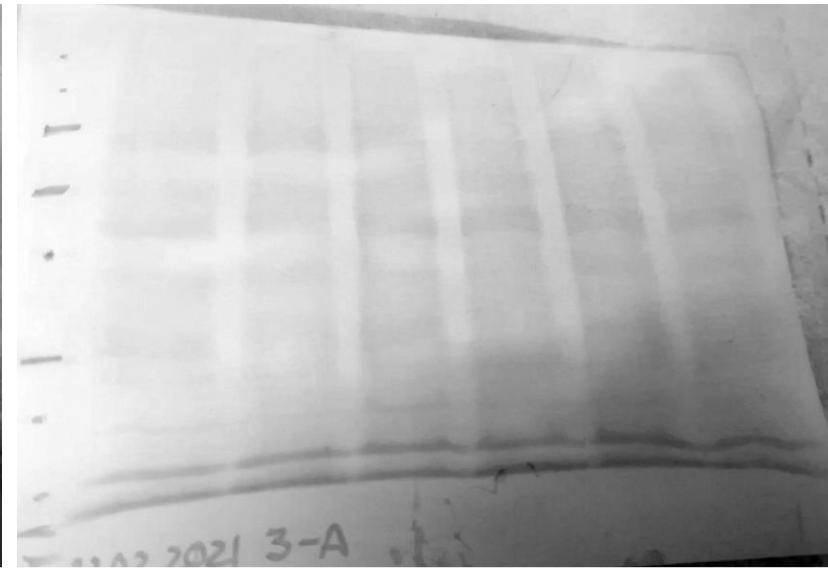
PGC-1 α - PonceauS
1



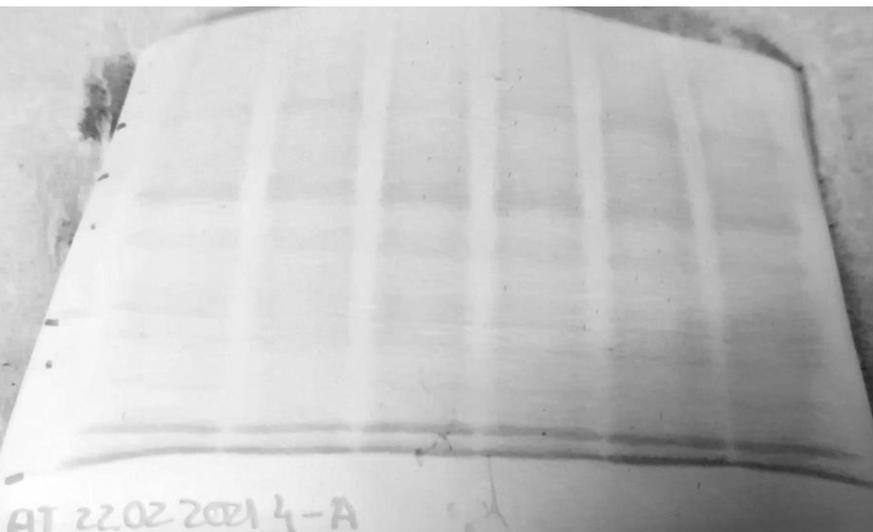
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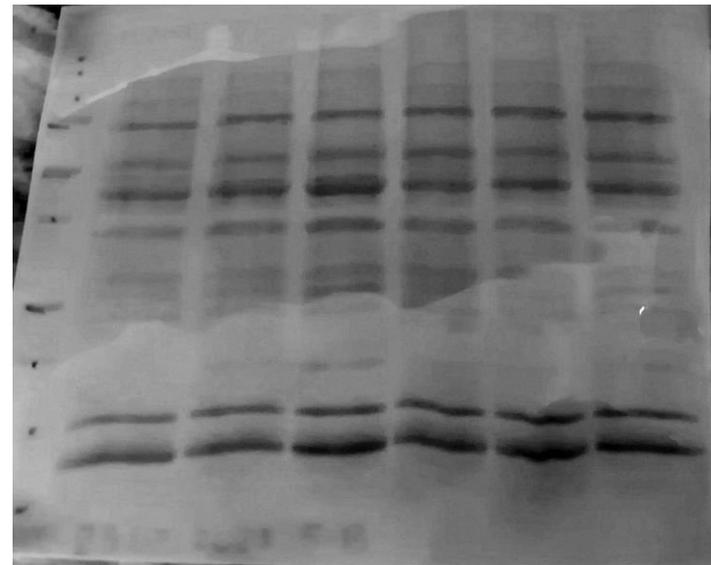
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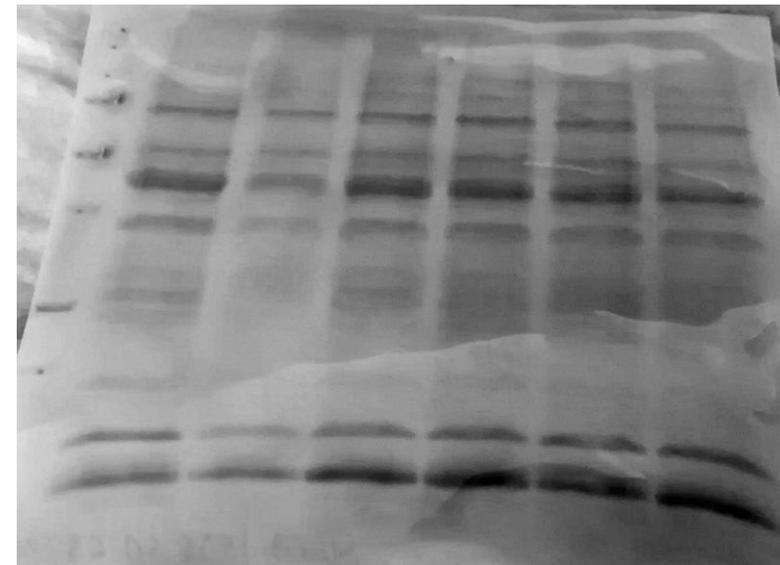
4



5



6

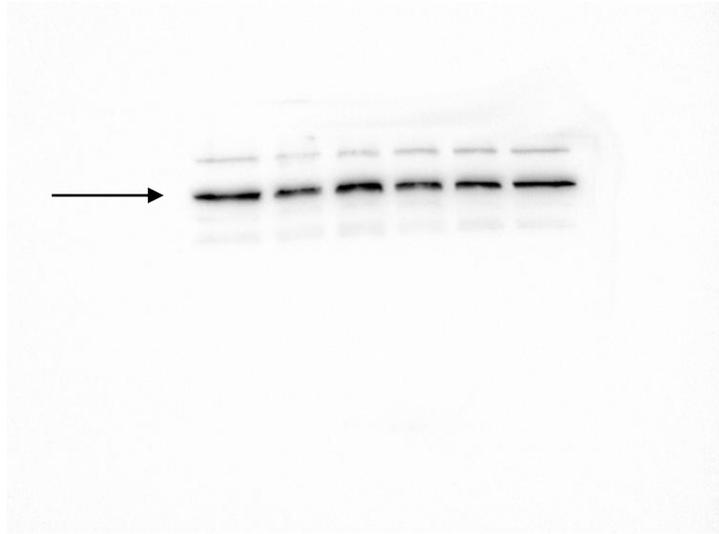


MWM: molecular weight marker

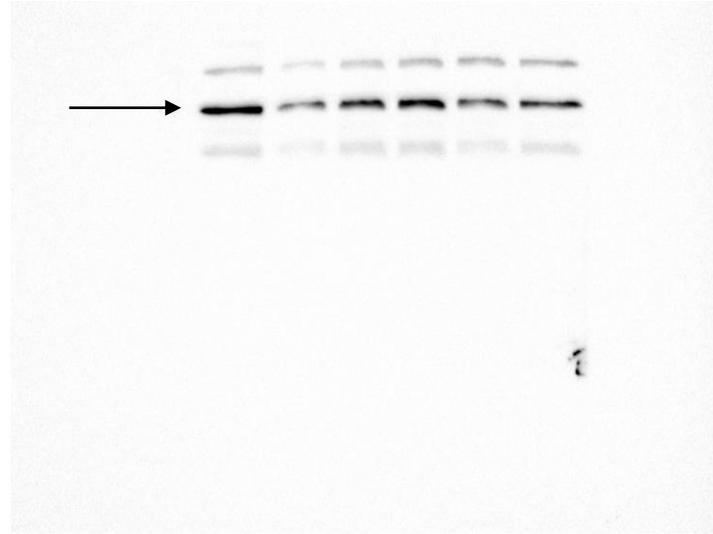
Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

PGC-1 α - Blot

1



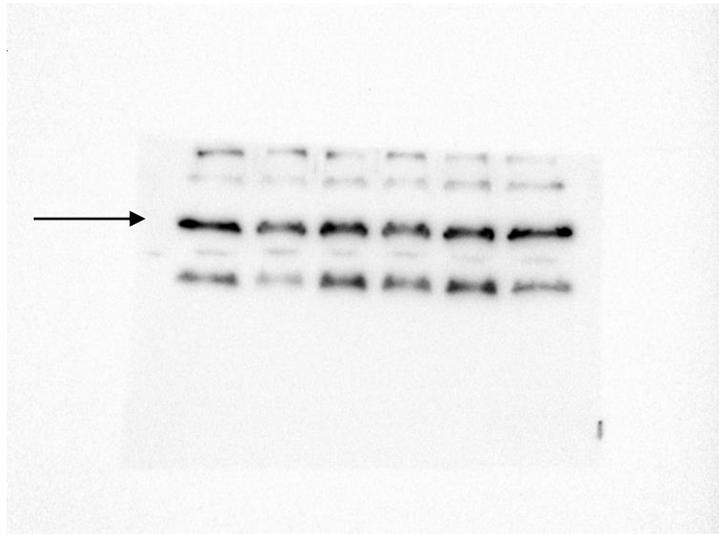
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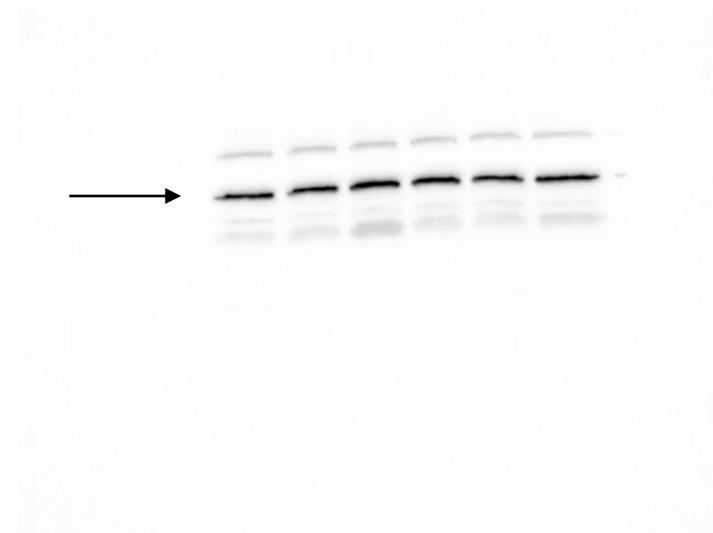
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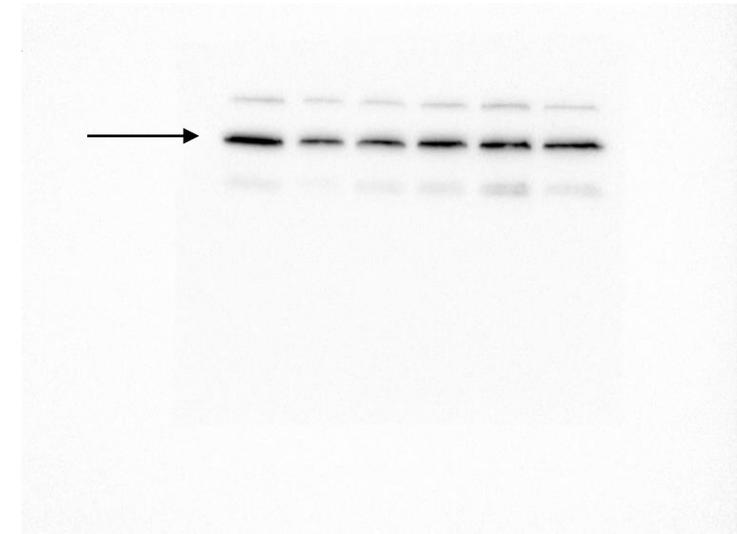
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5



6

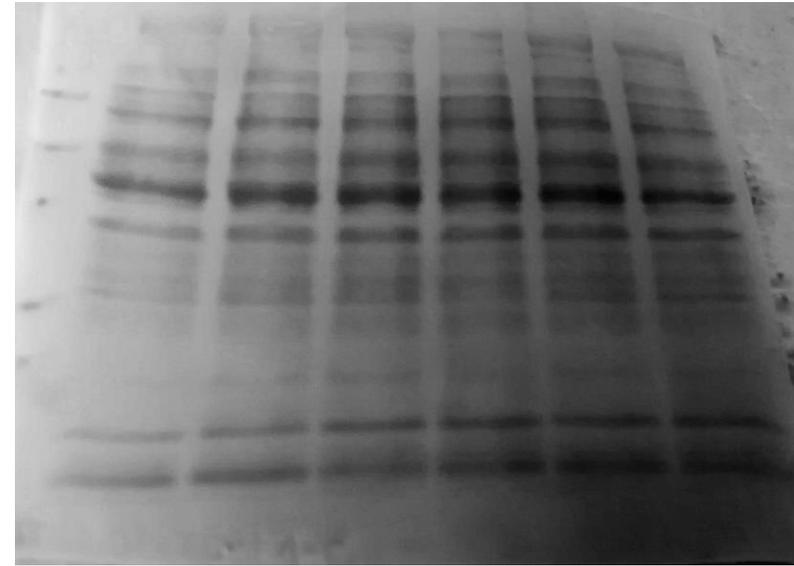


MWM: molecular weight marker

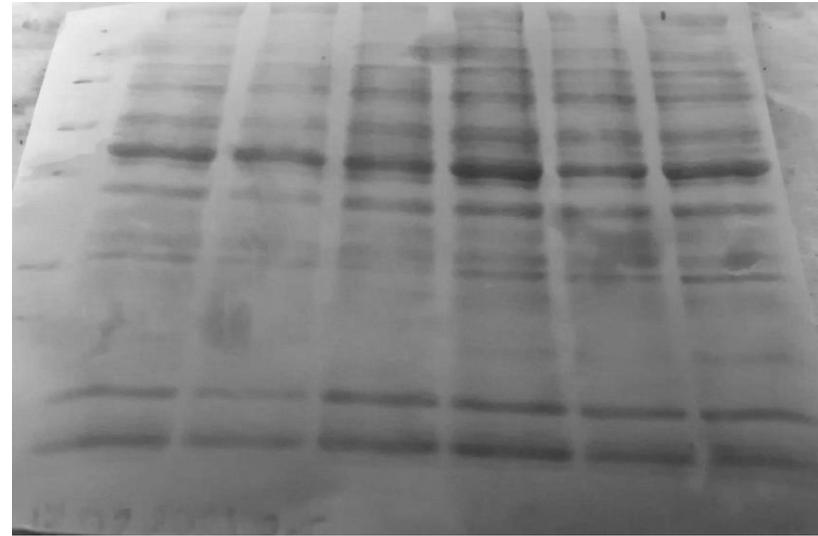
Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

Tfam - PonceauS

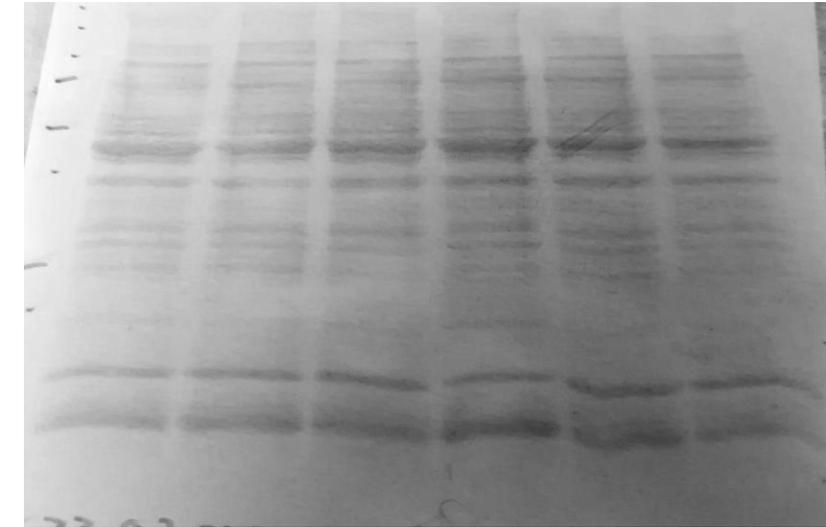
1



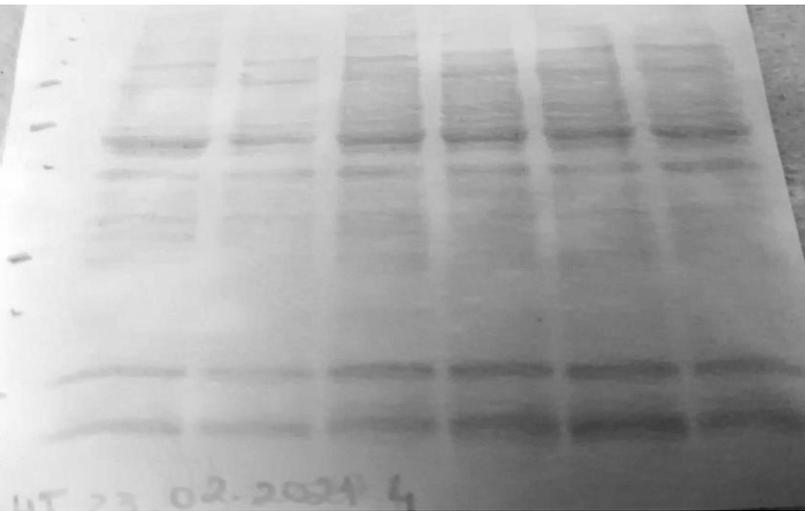
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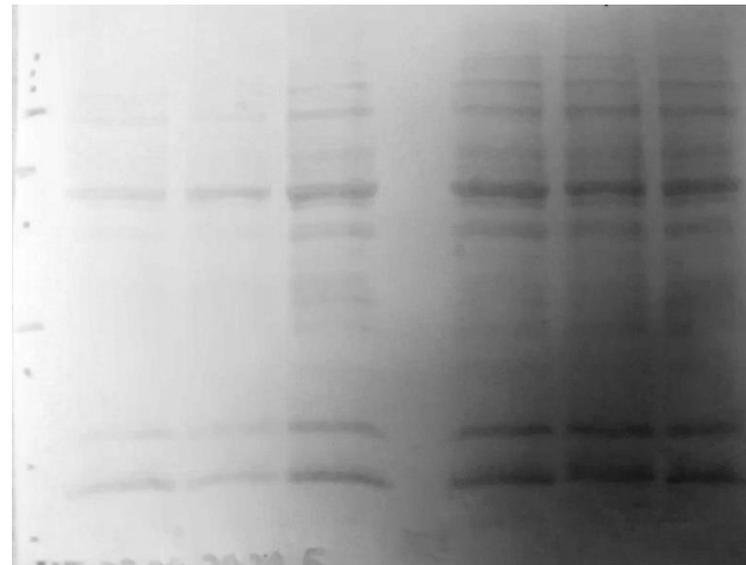
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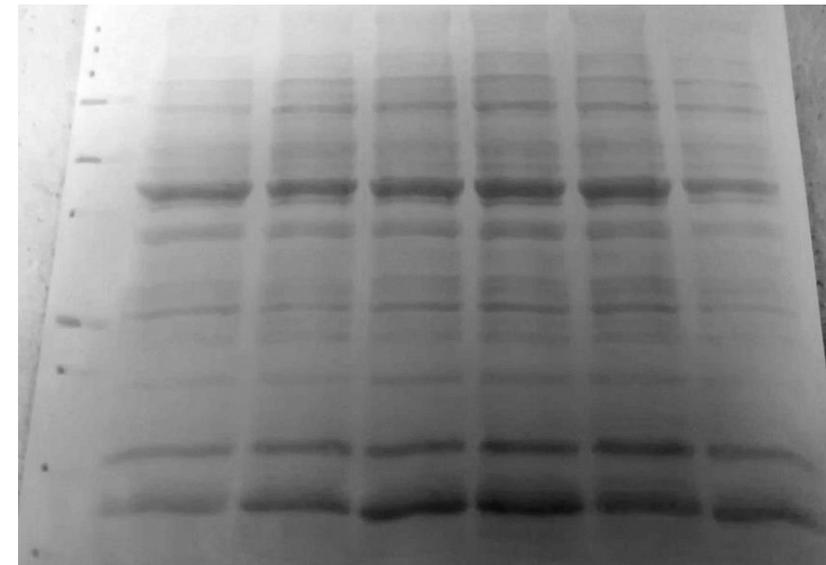
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5



6

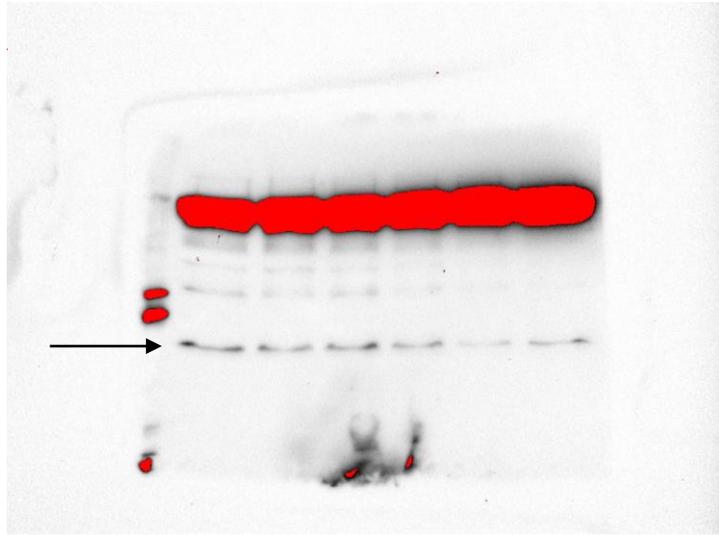


MWM: molecular weight marker

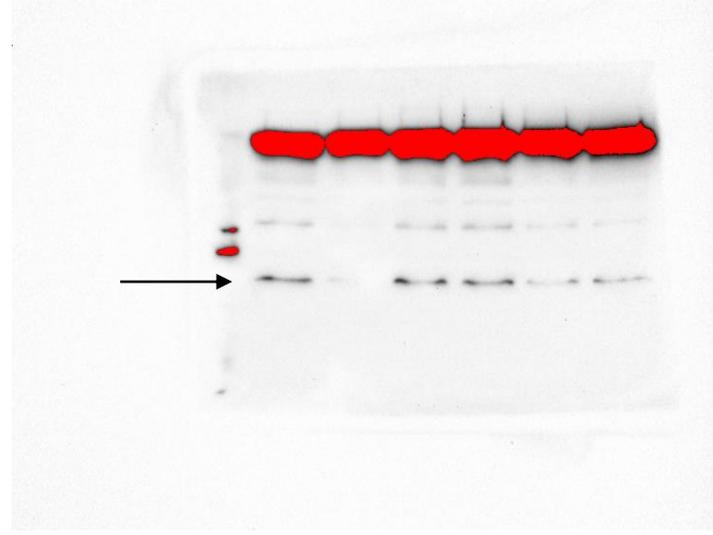
Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

Tfam - Blot

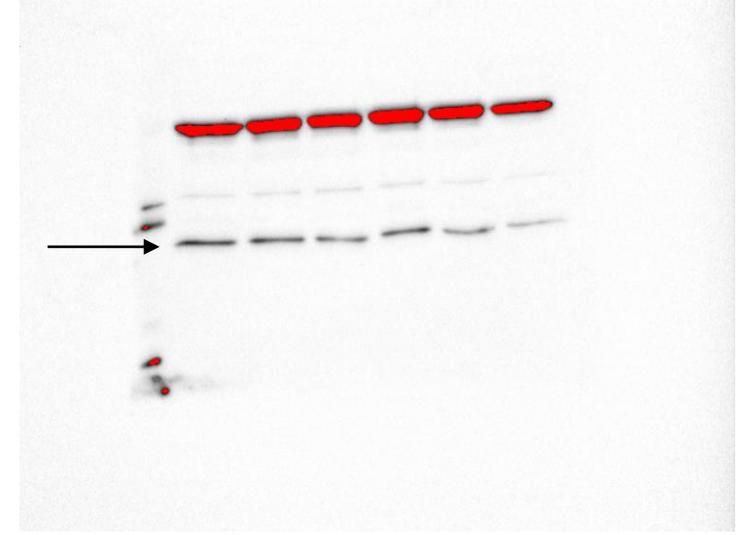
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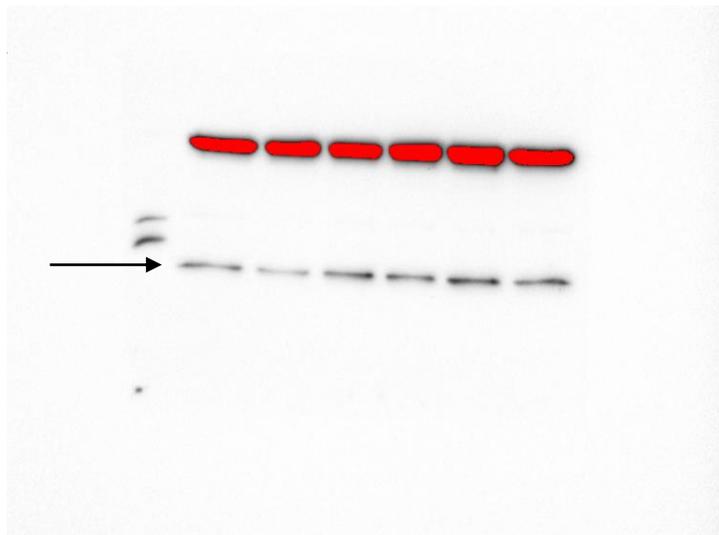
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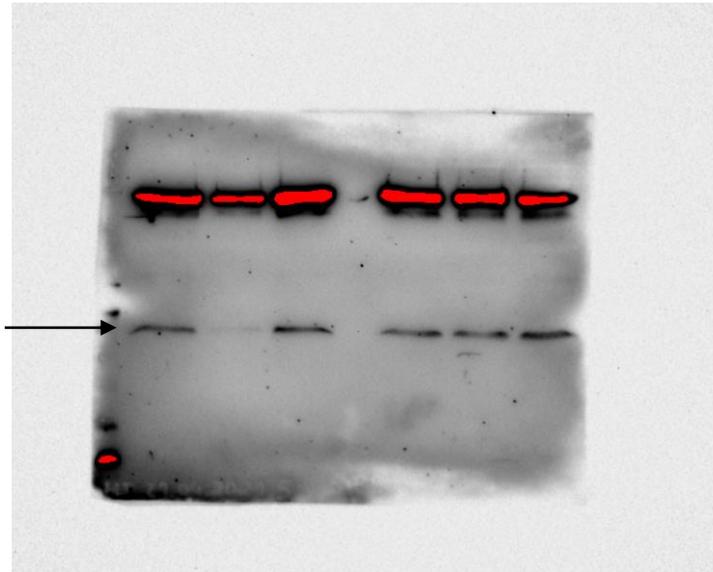
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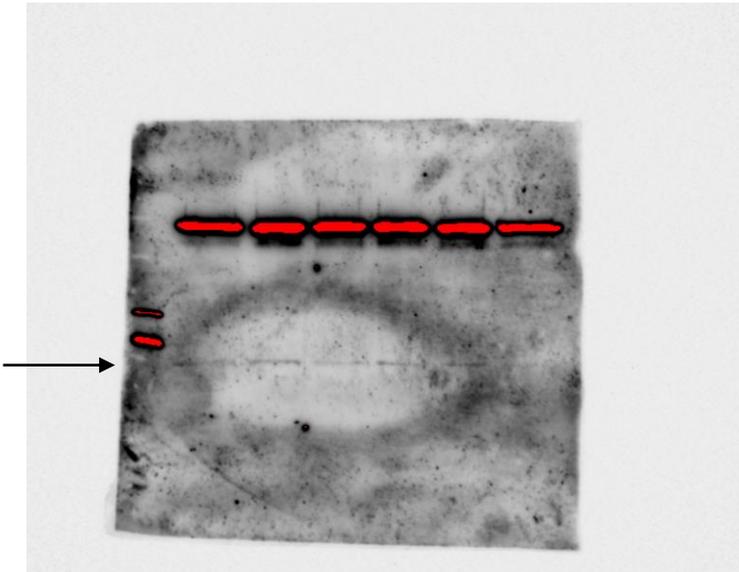
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5



6

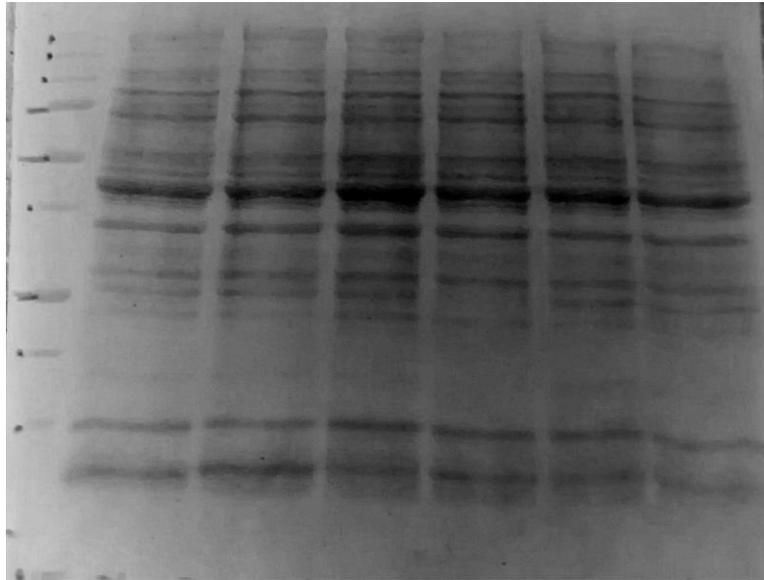


MWM: molecular weight marker

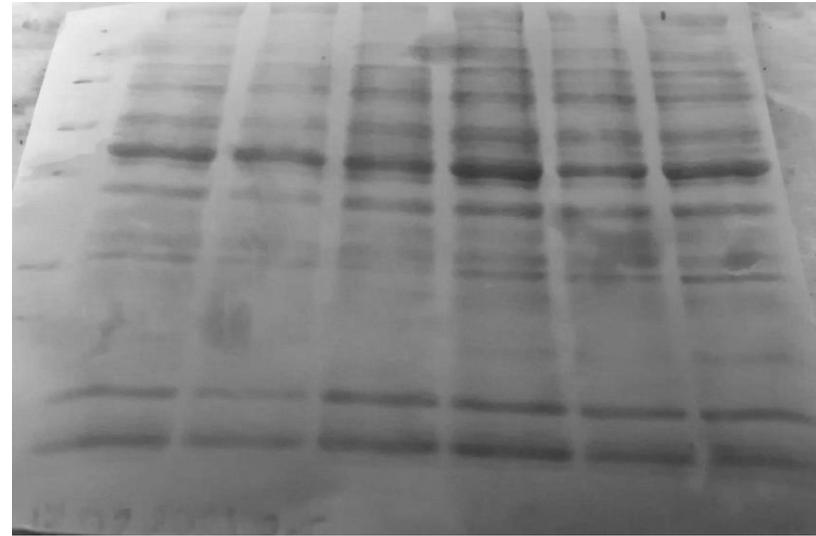
Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

Mfn1 - PonceauS

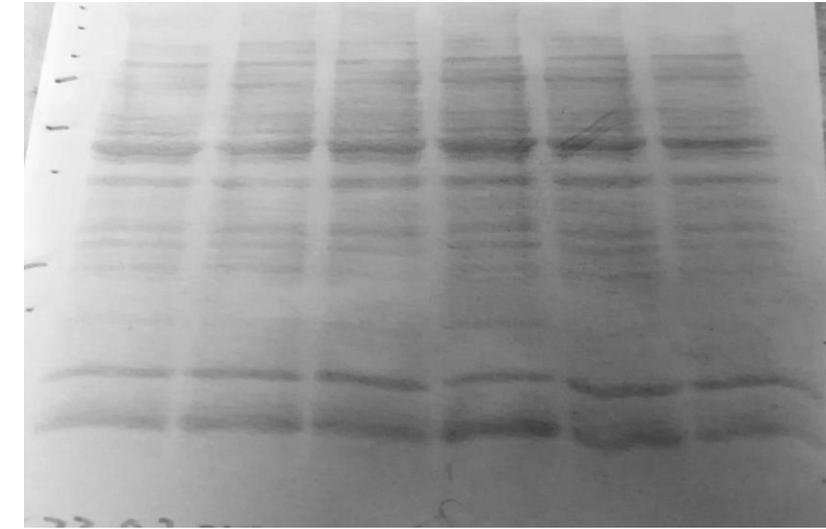
1



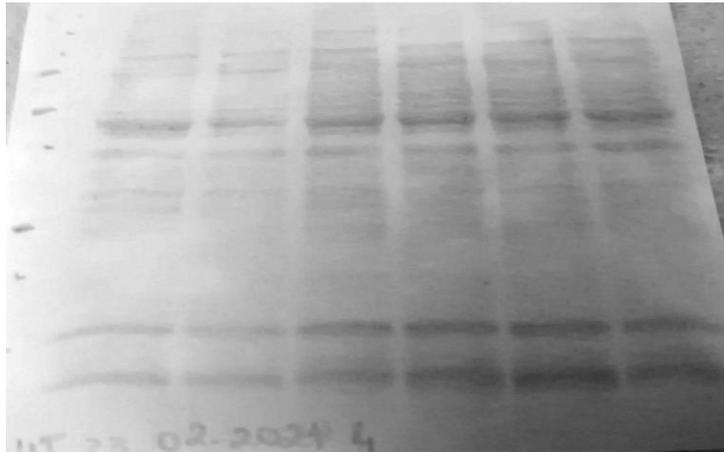
2



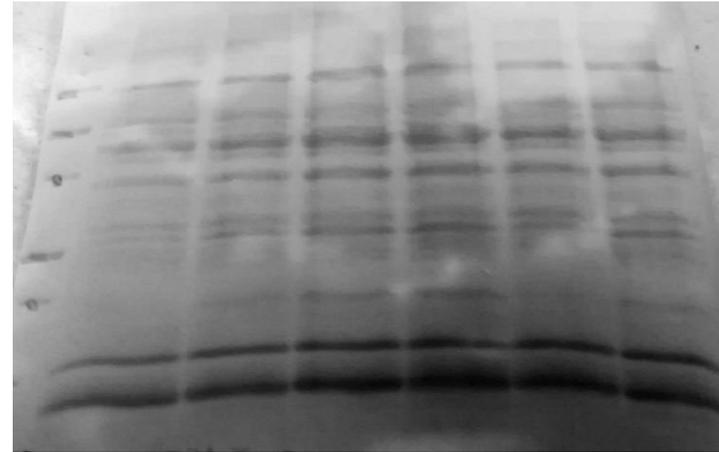
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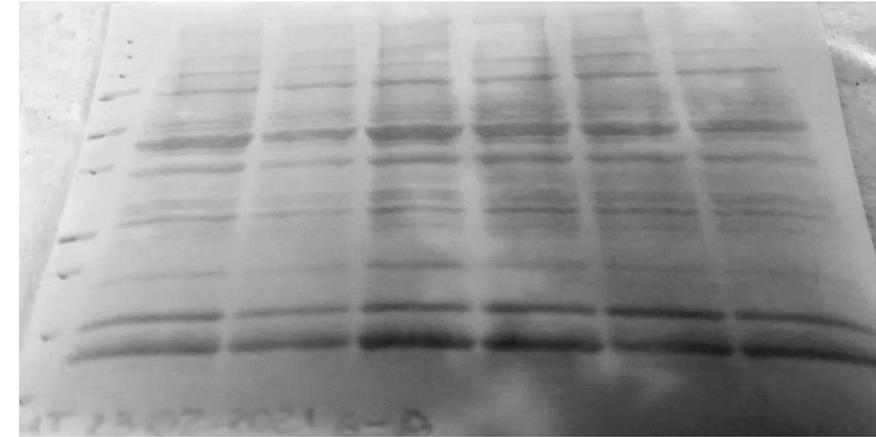
4



5



6

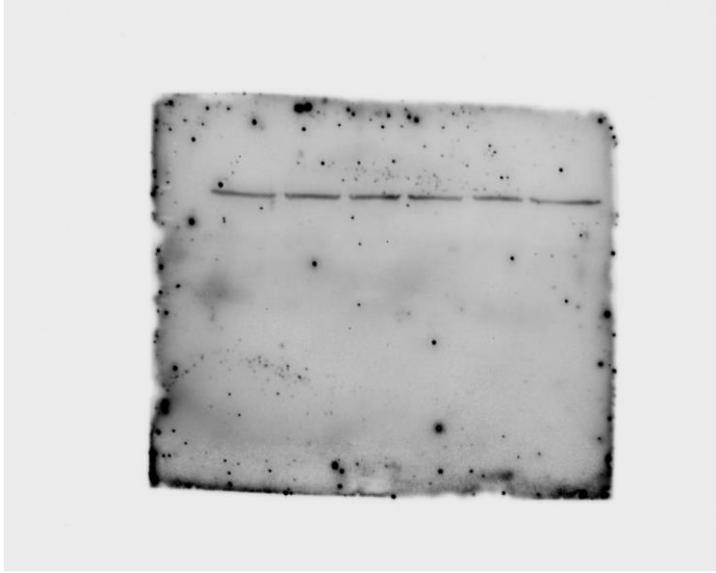


MWM: molecular weight marker

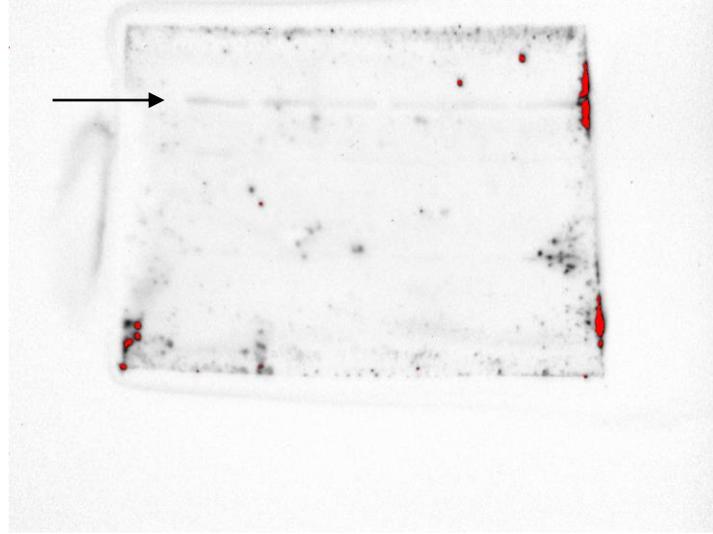
Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

Mfn1 - Blot

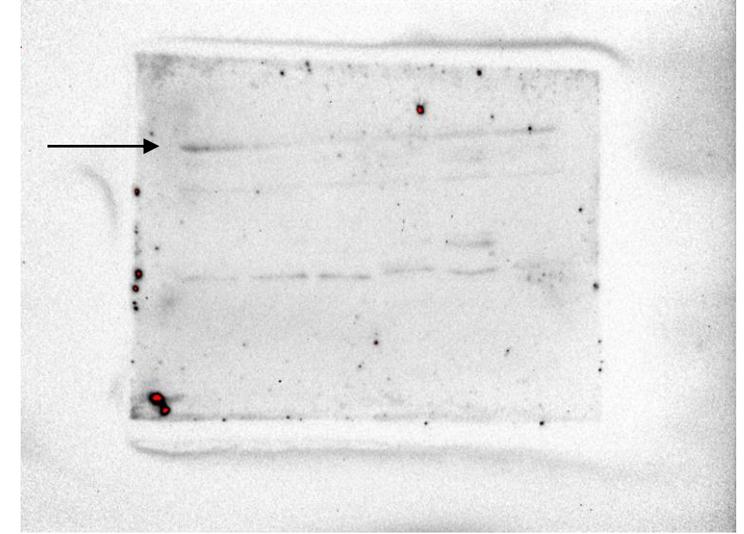
1



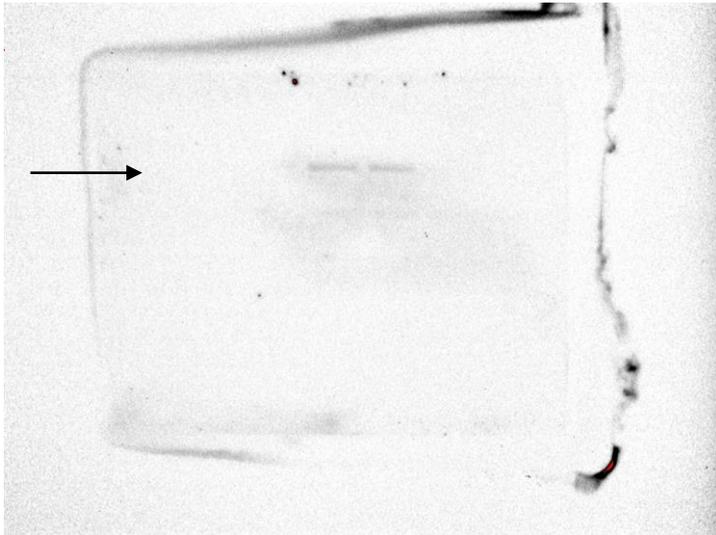
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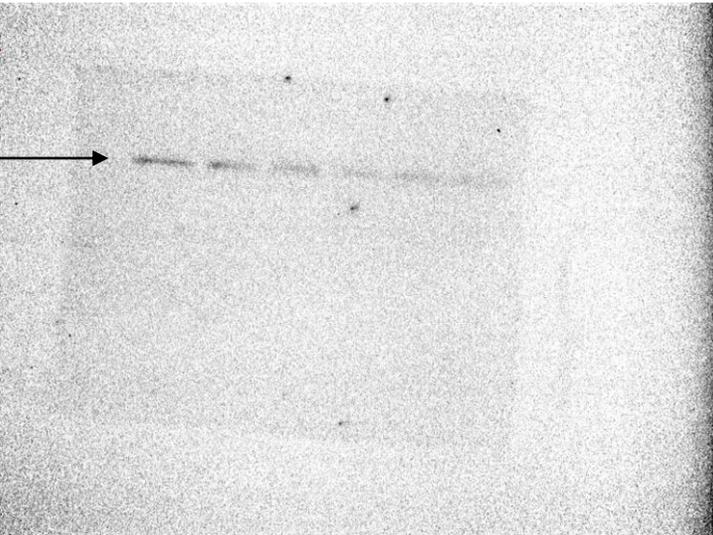
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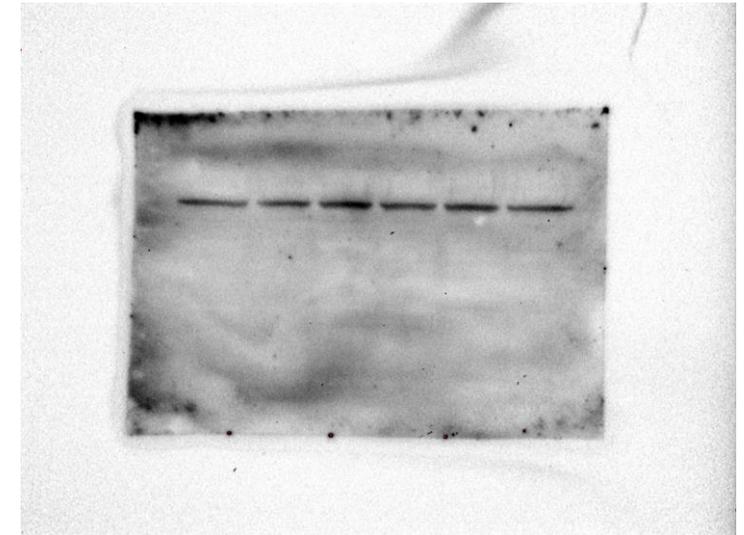
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5



6

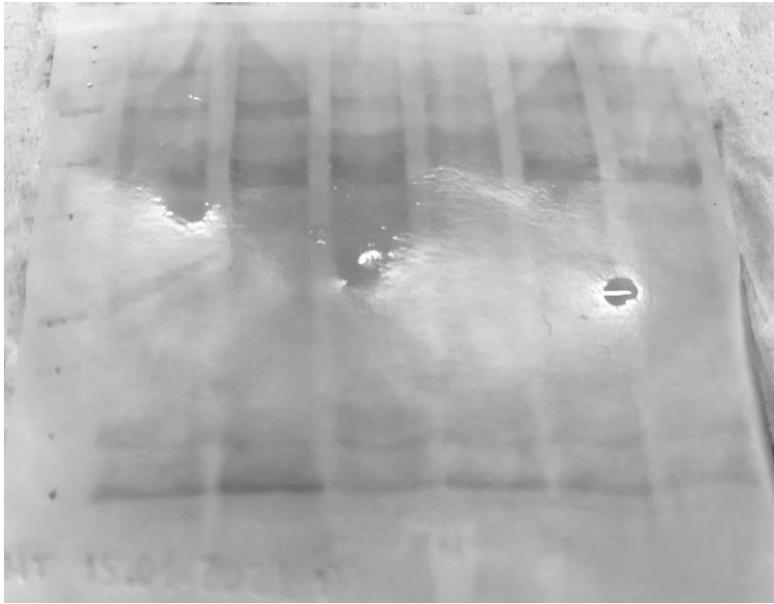


MWM: molecular weight marker

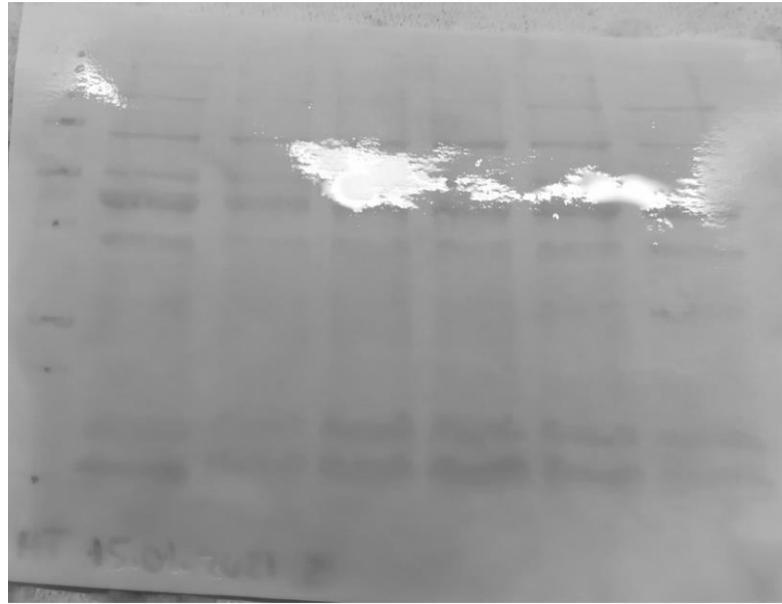
Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

Beclin1 - PonceauS
1

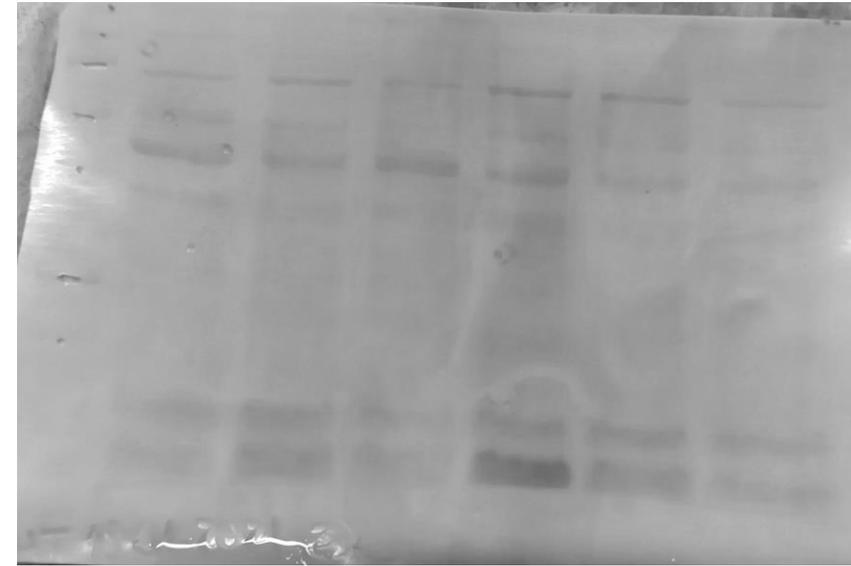
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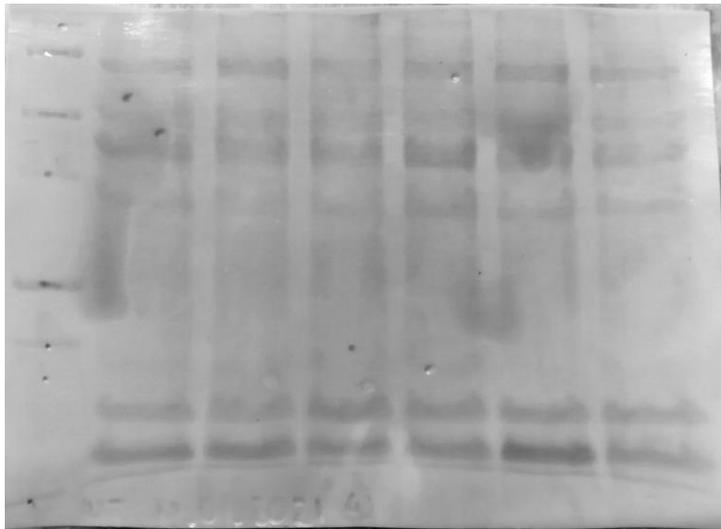
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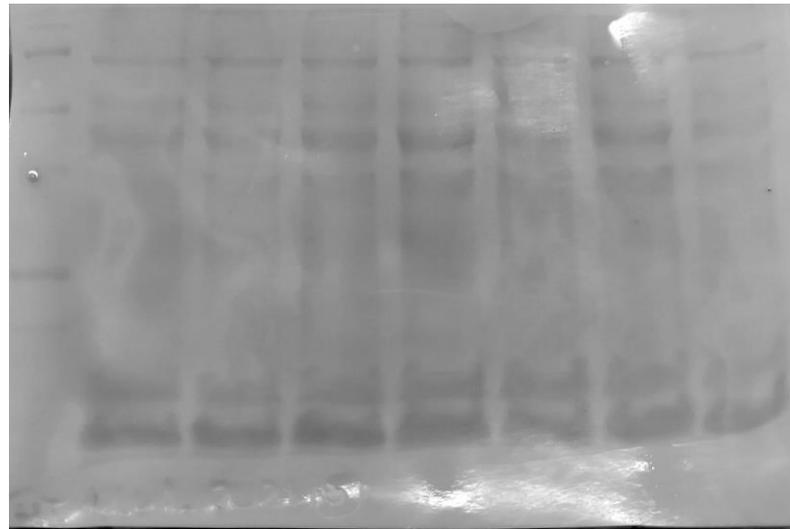
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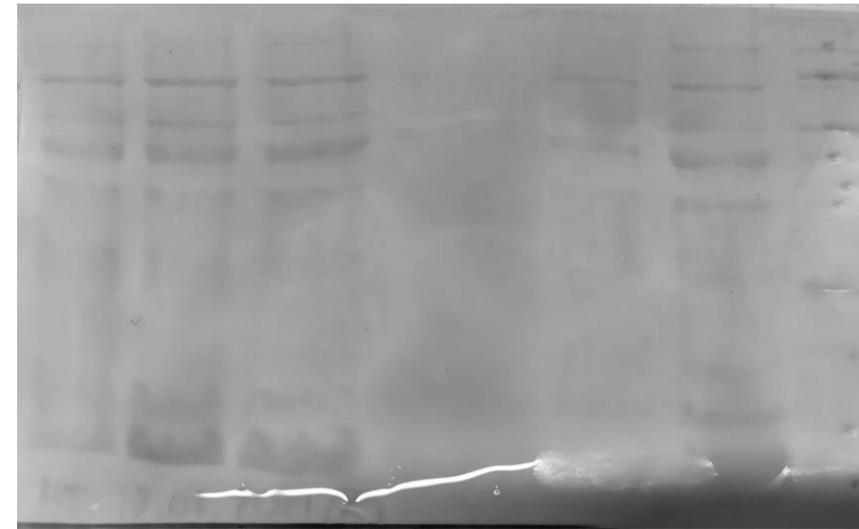
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6

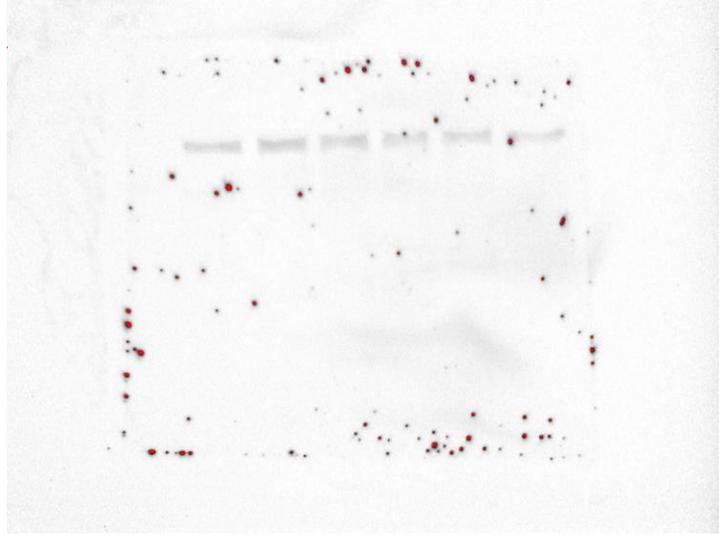


MWM: molecular weight marker

Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

Beclin1 - Blot

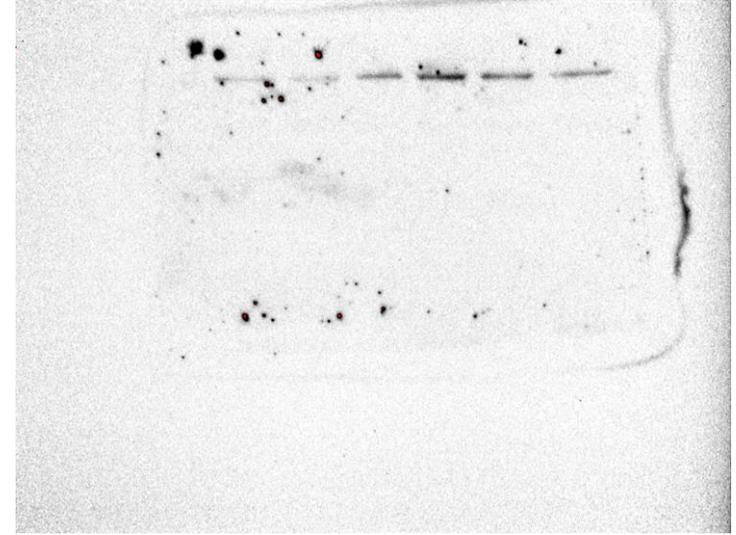
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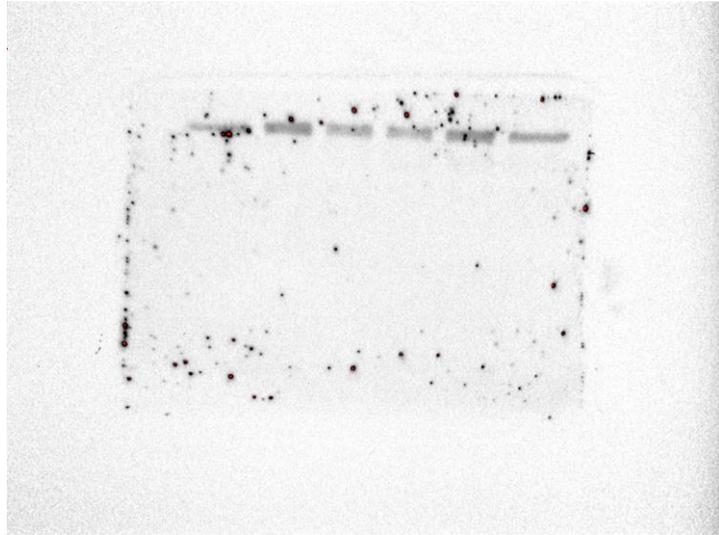
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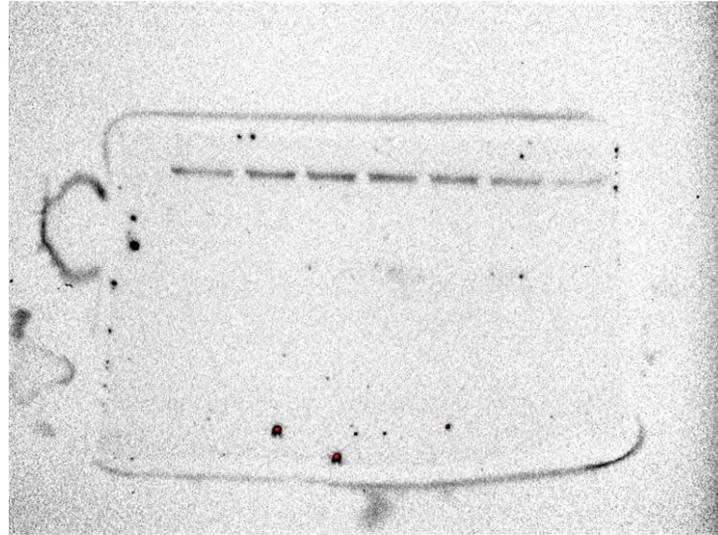
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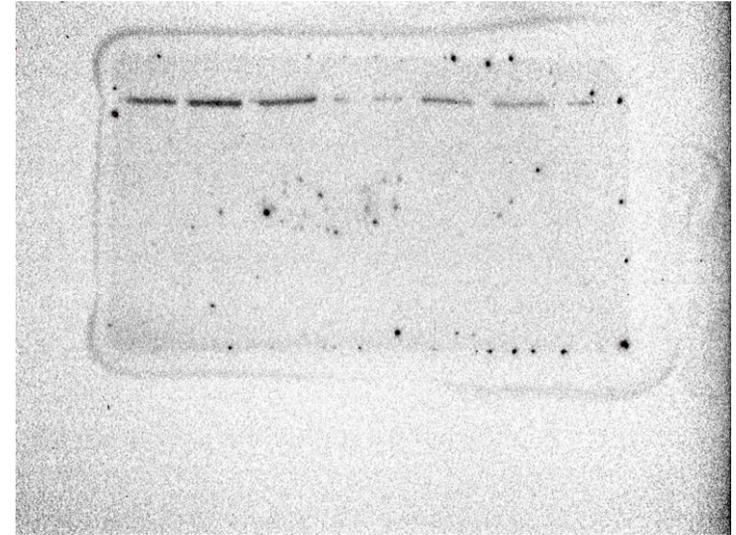
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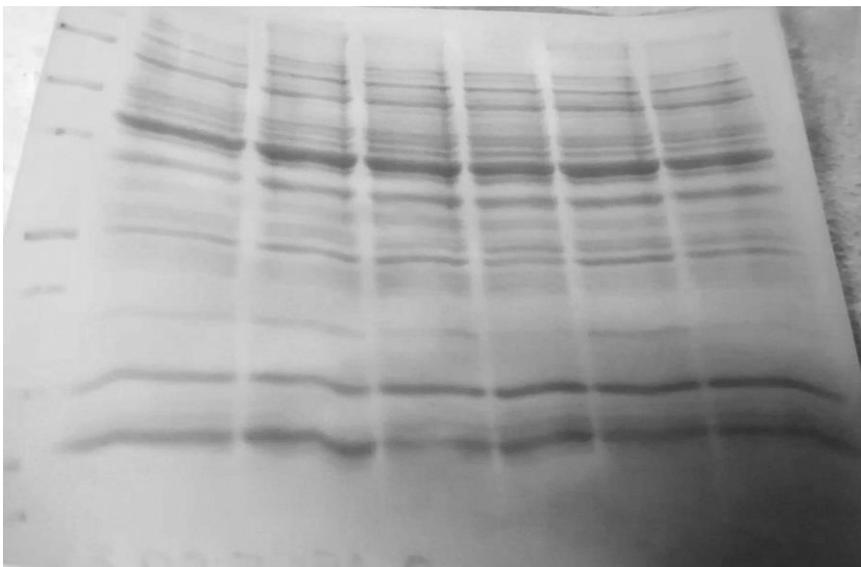


MWM: molecular weight marker

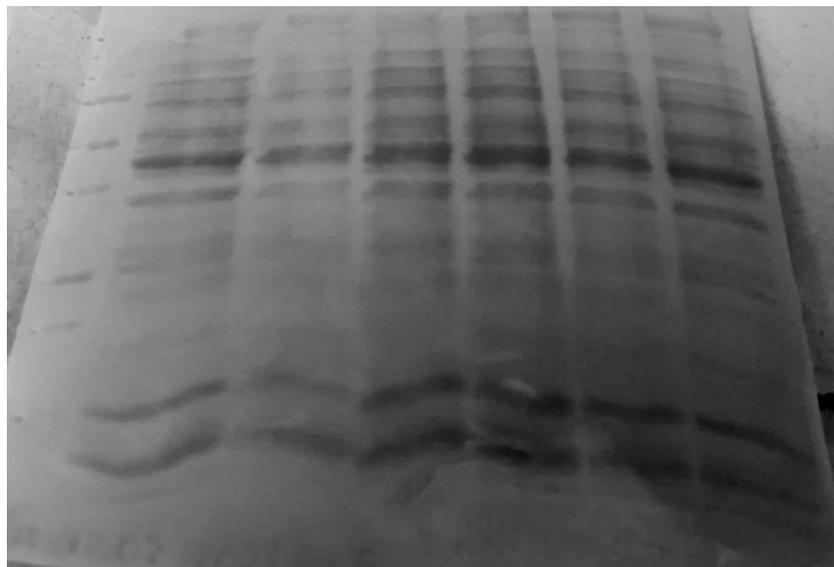
Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

ATG5 - PonceauS

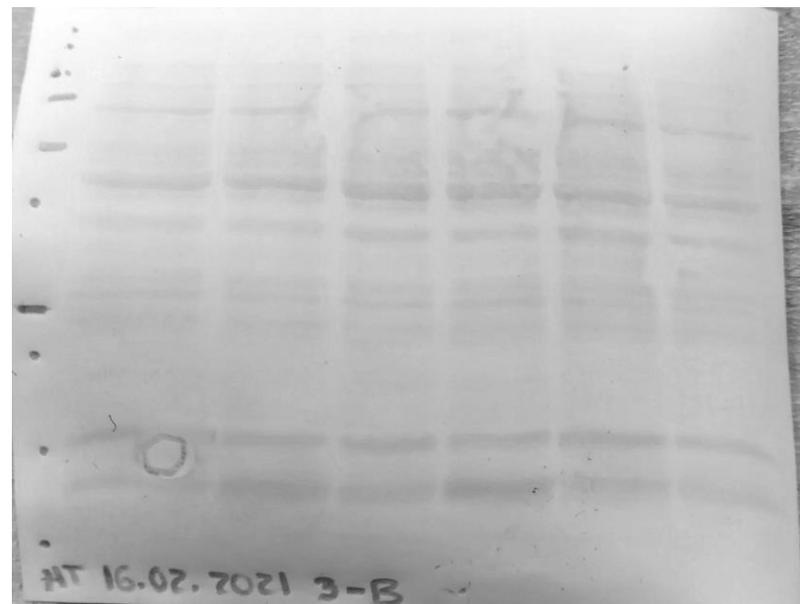
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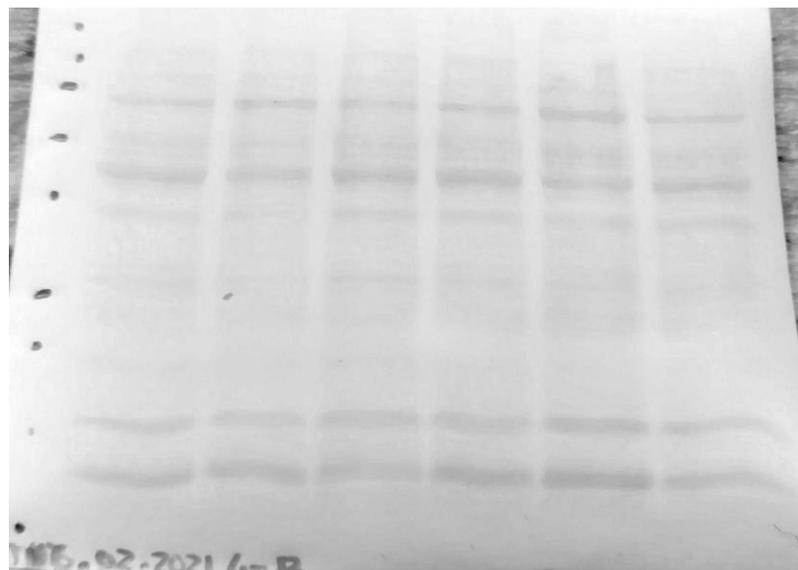
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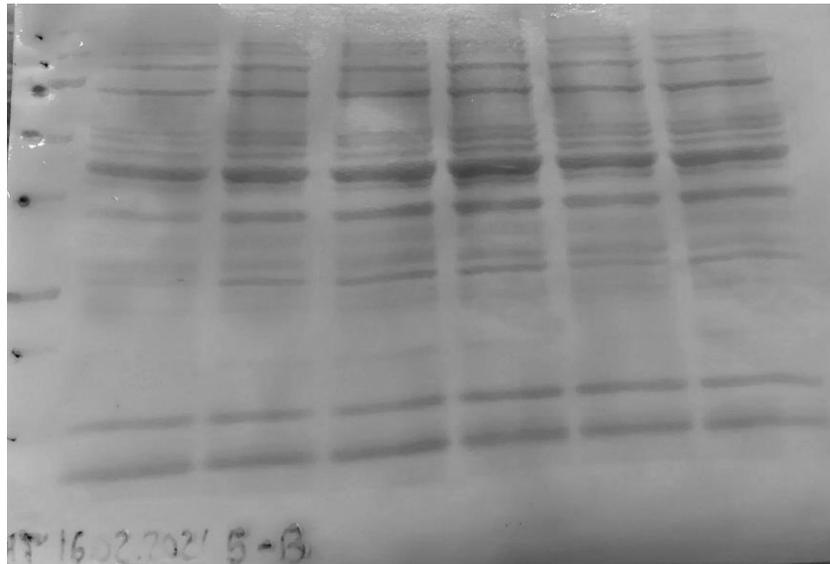
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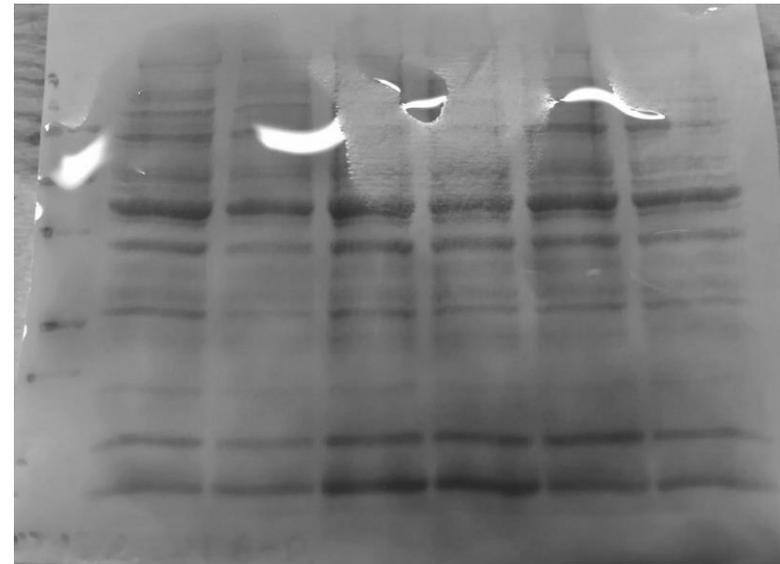
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6

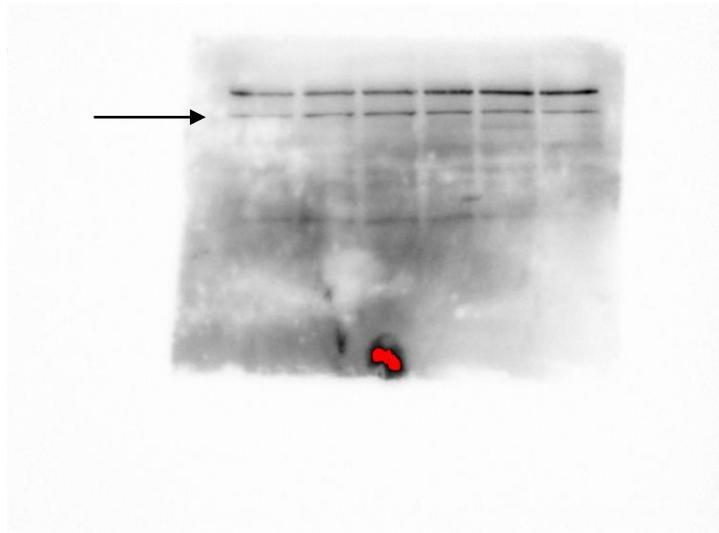


MWM: molecular weight marker

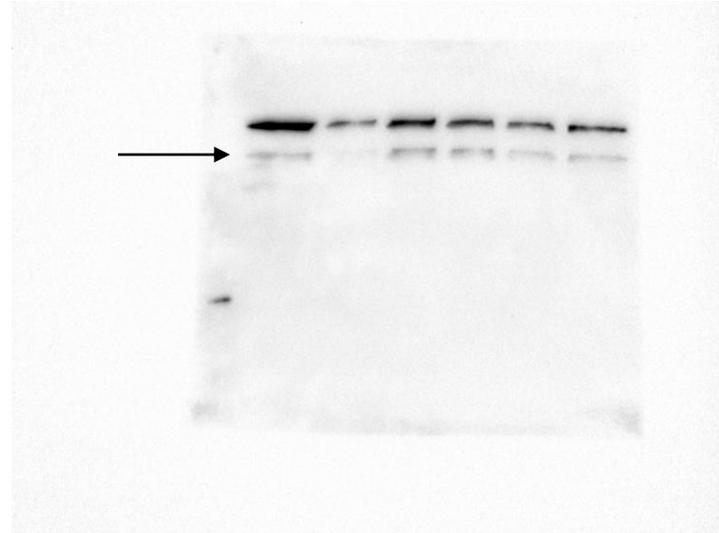
Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

ATG5 - Blot

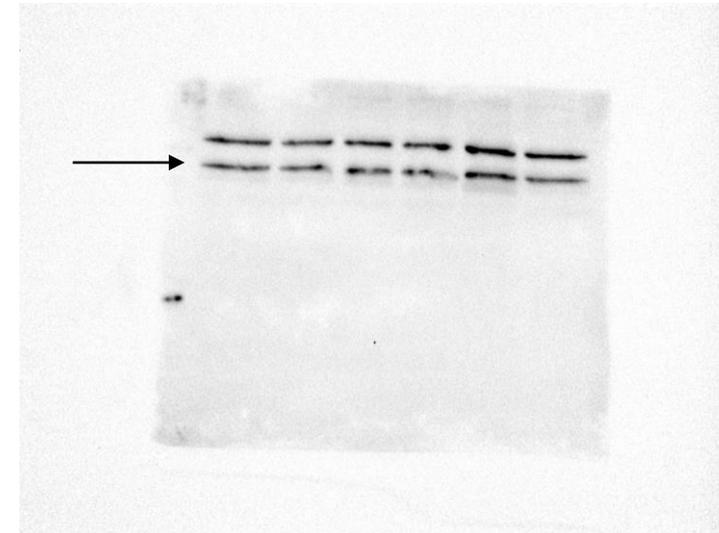
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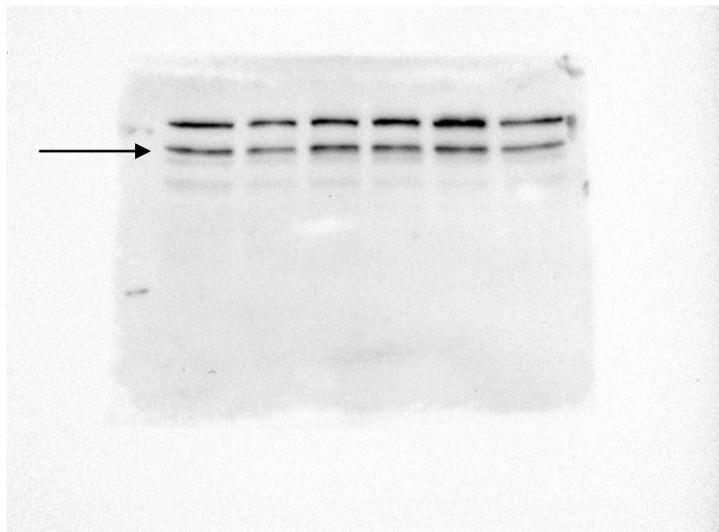
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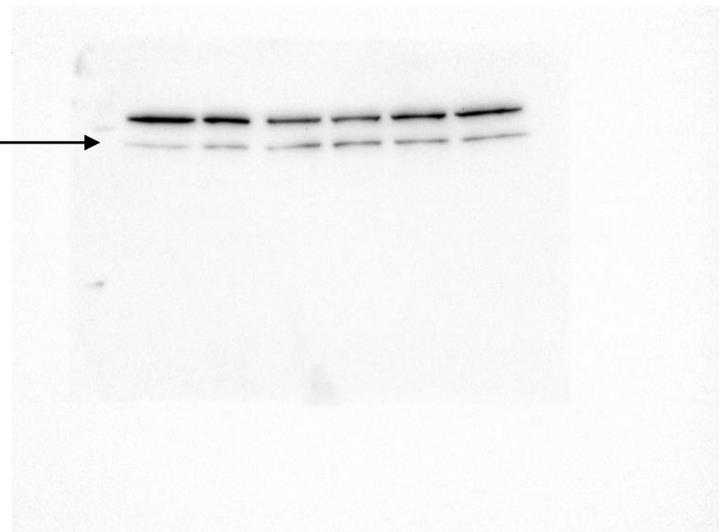
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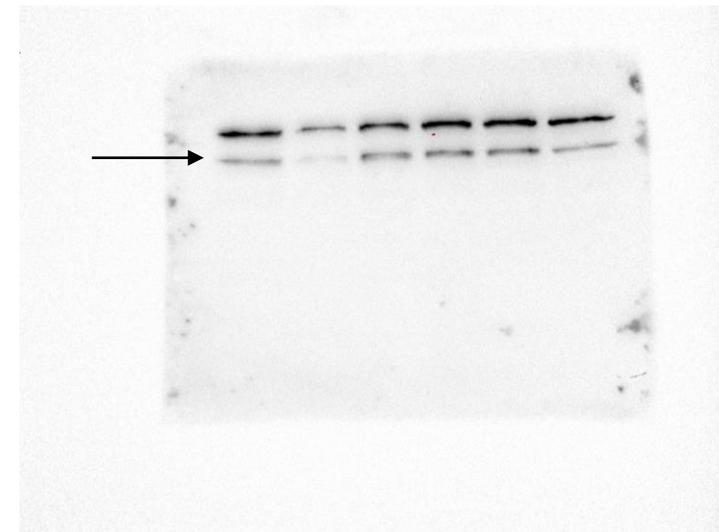
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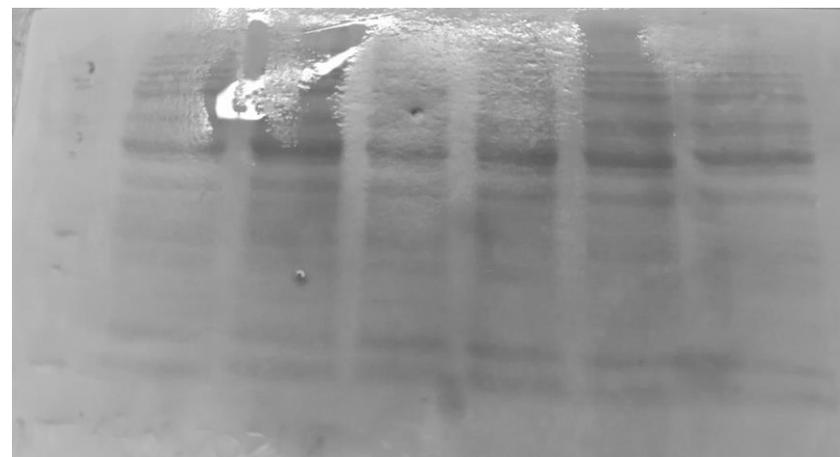


MWM: molecular weight marker

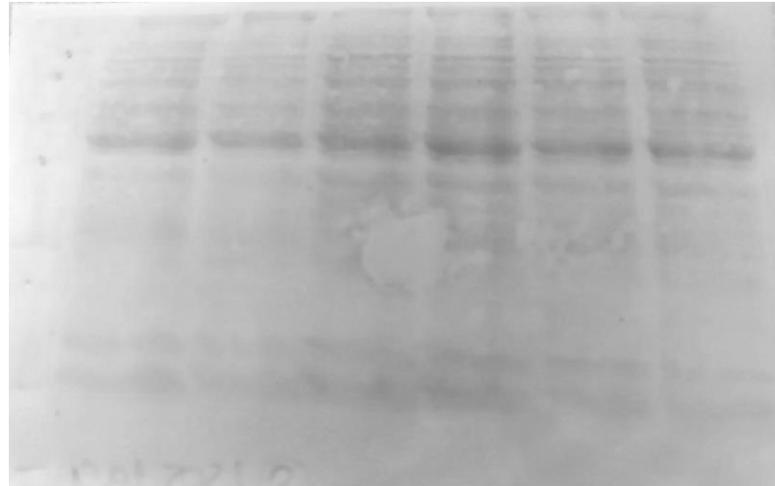
Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

LC3B - PonceauS

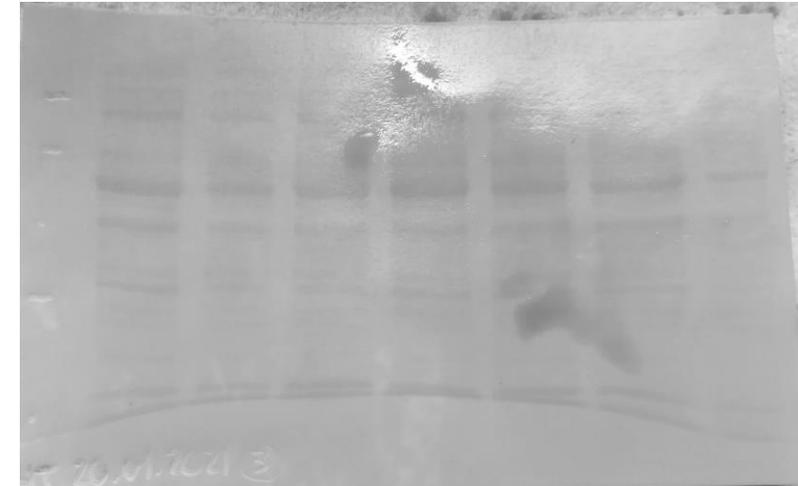
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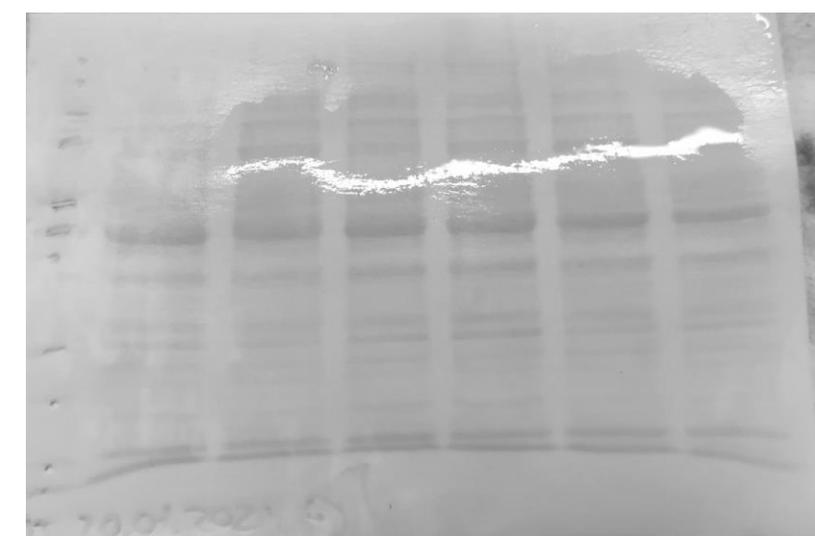
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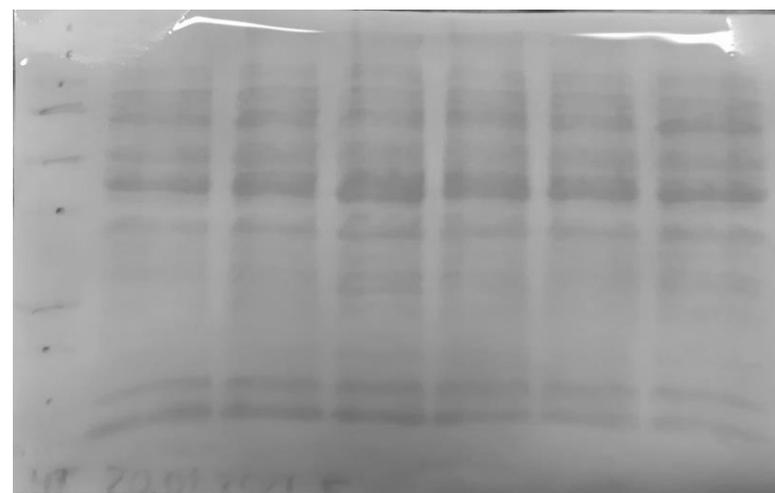
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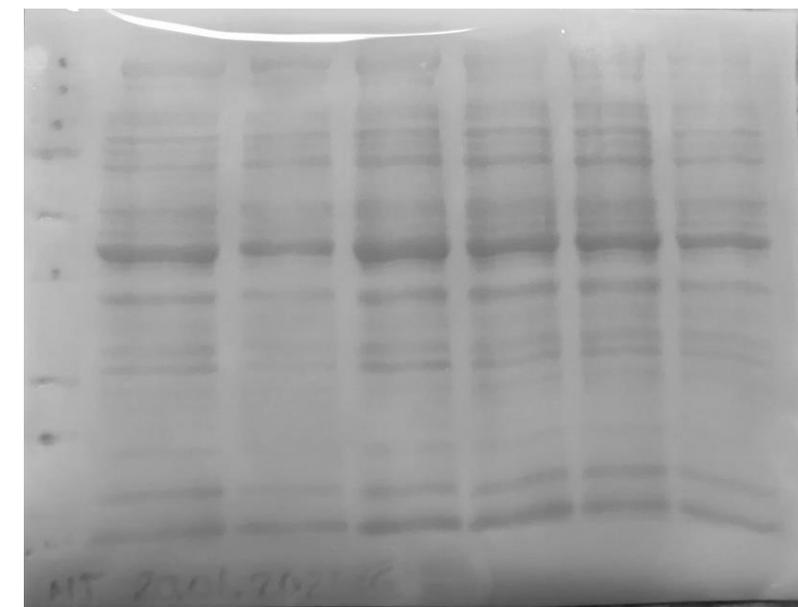
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6

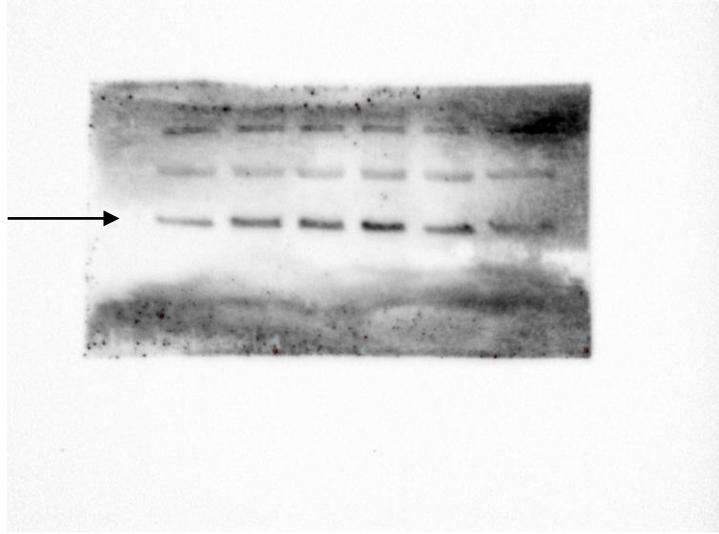


MWM: molecular weight marker

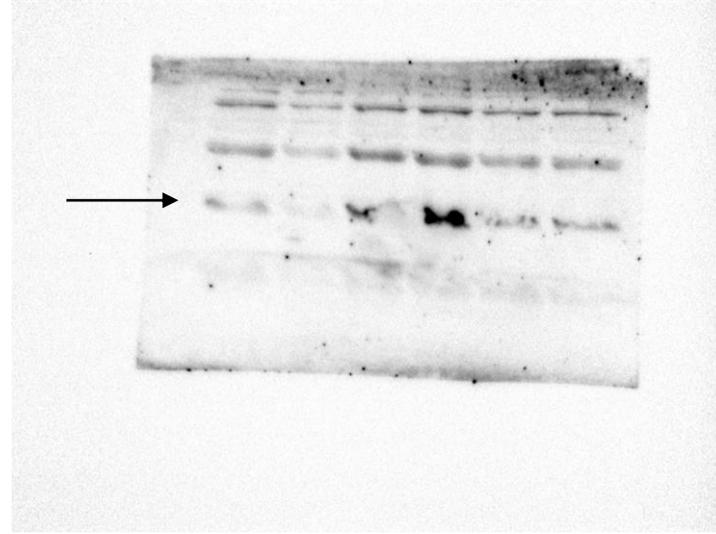
Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

LC3B - Blot

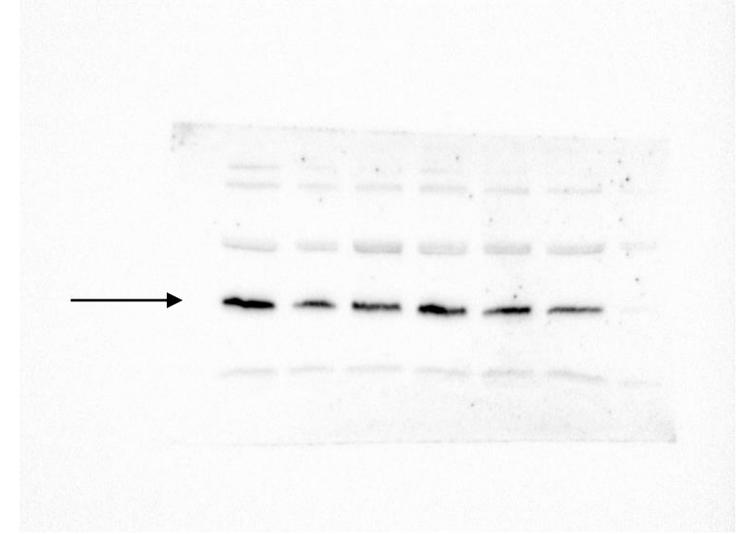
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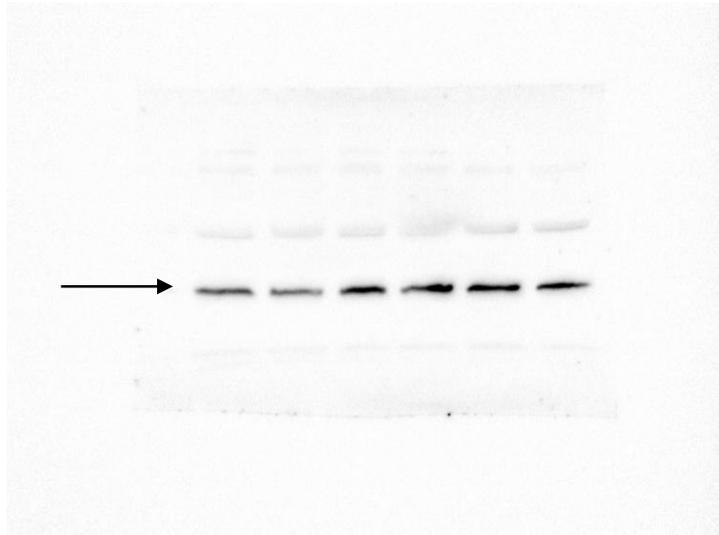
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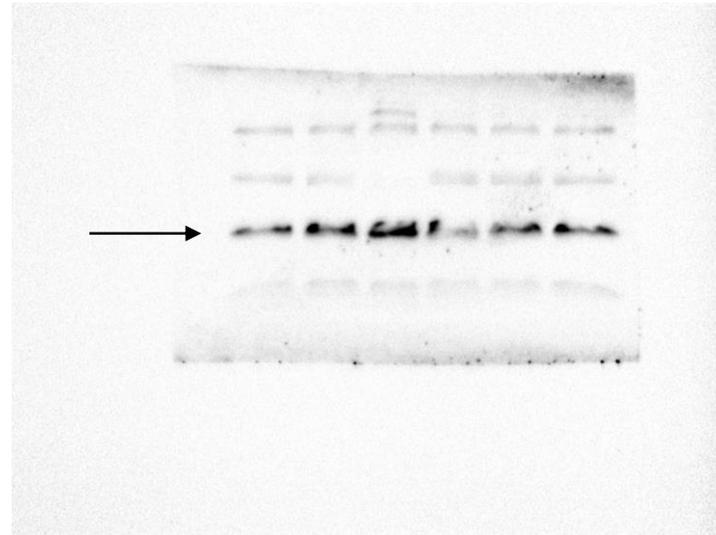
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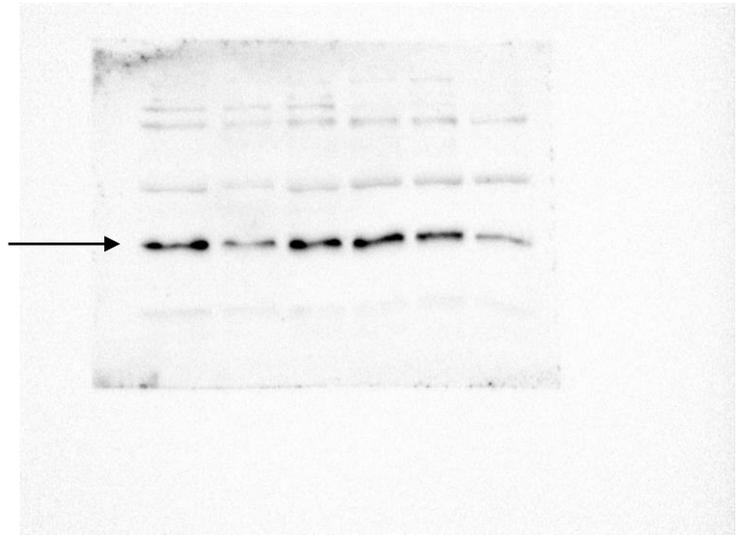
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MWM: molecular weight marker

Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

Parkin - PonceauS₁

1

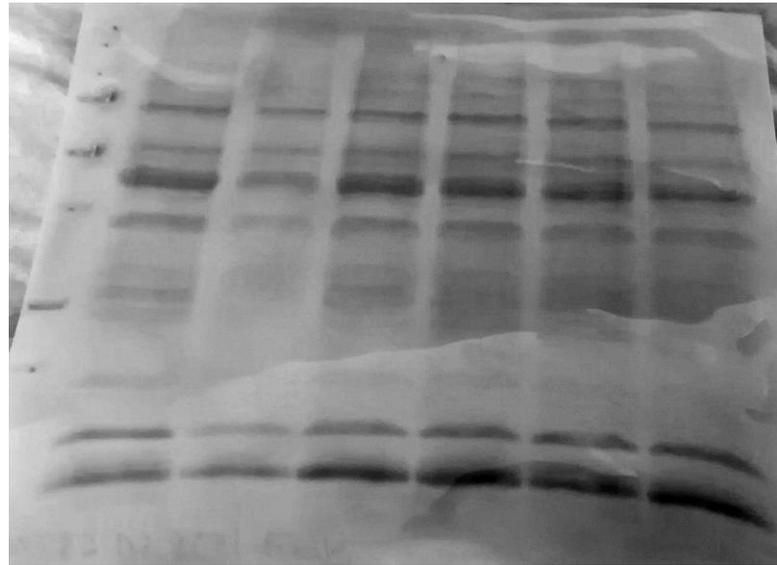
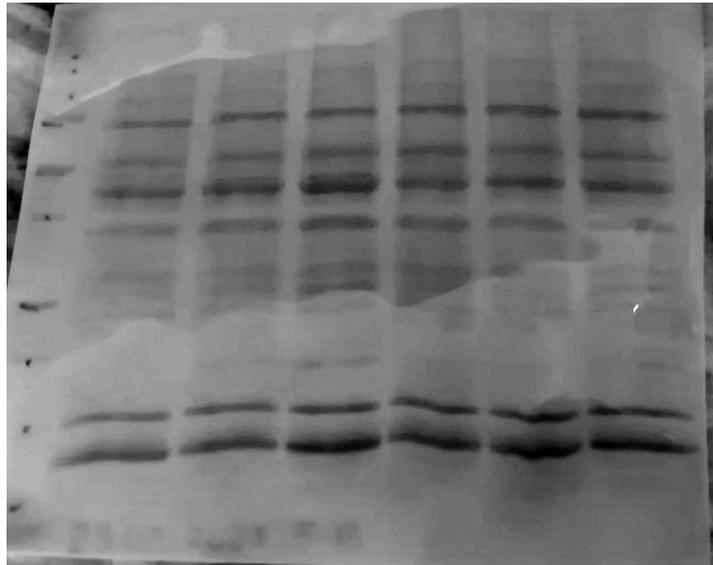
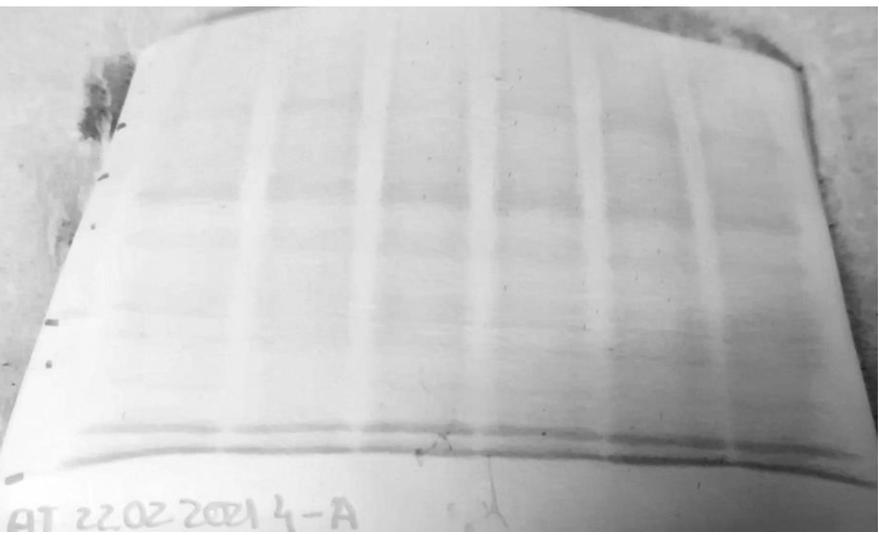
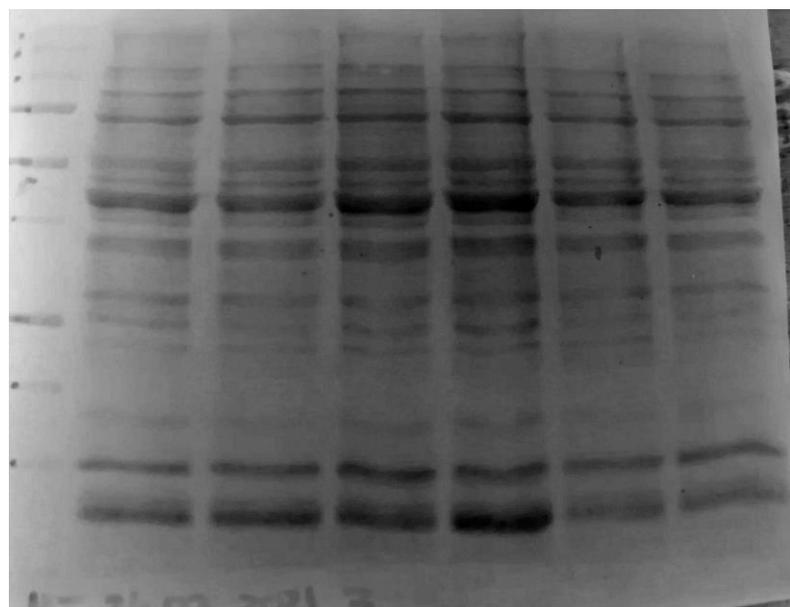
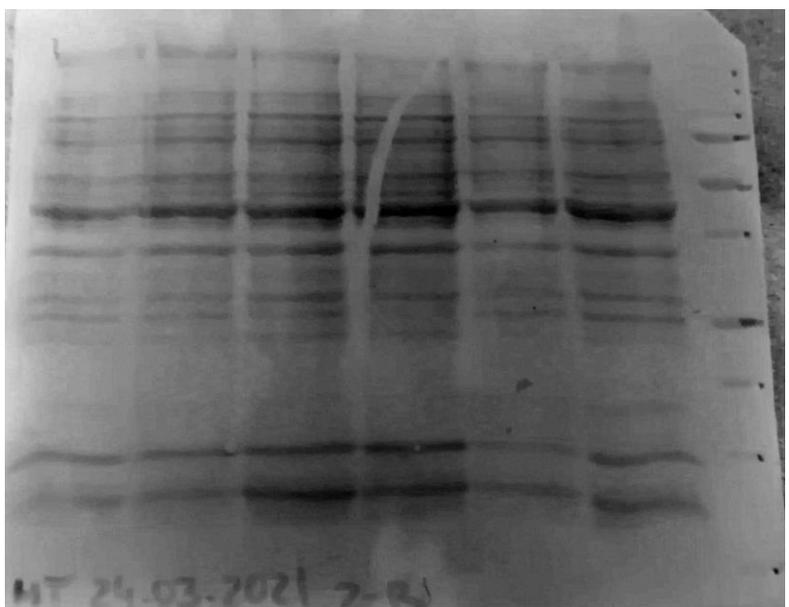
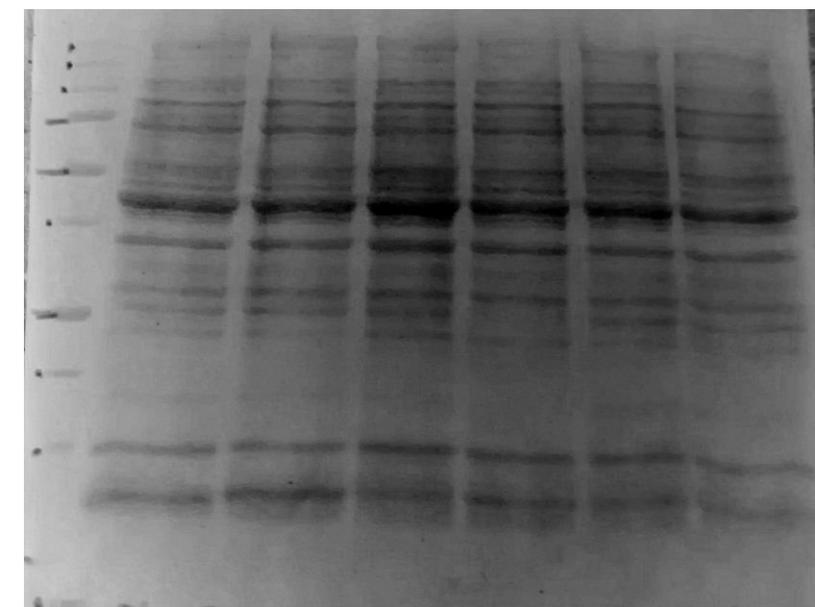
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6

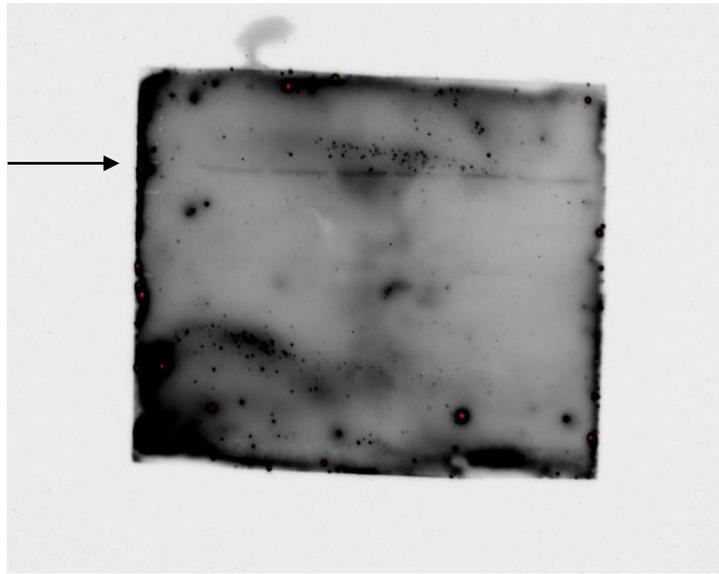


MWM: molecular weight marker

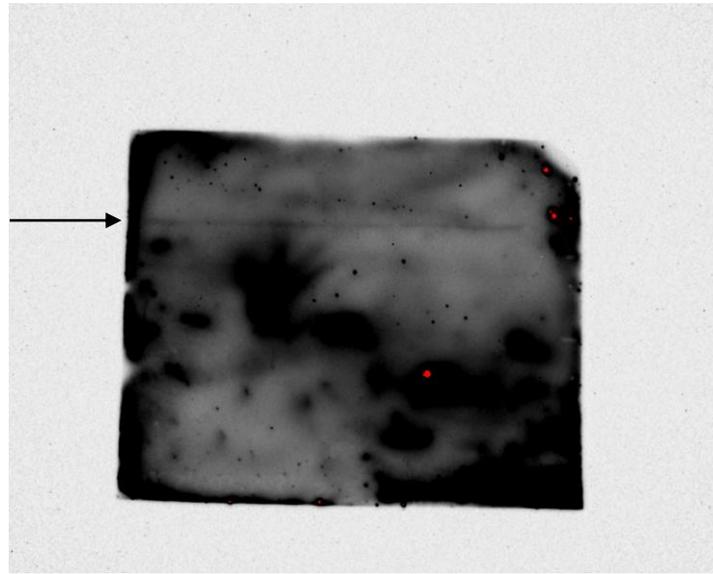
Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

Parkin - Blot

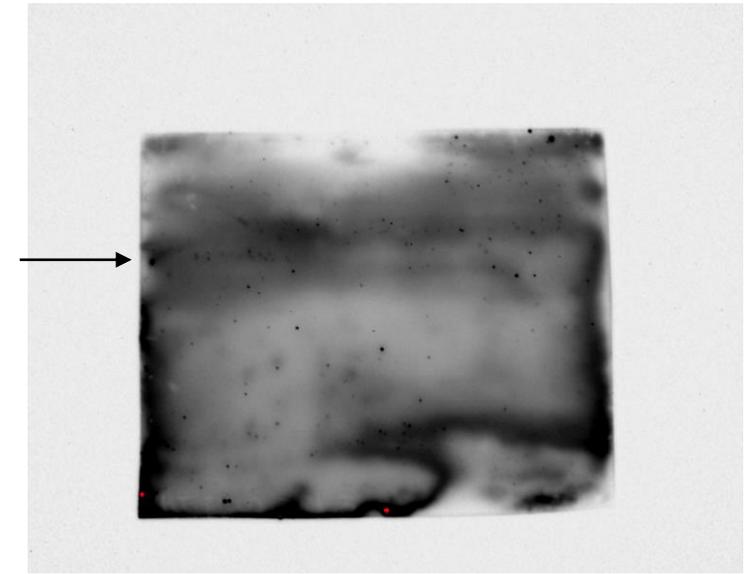
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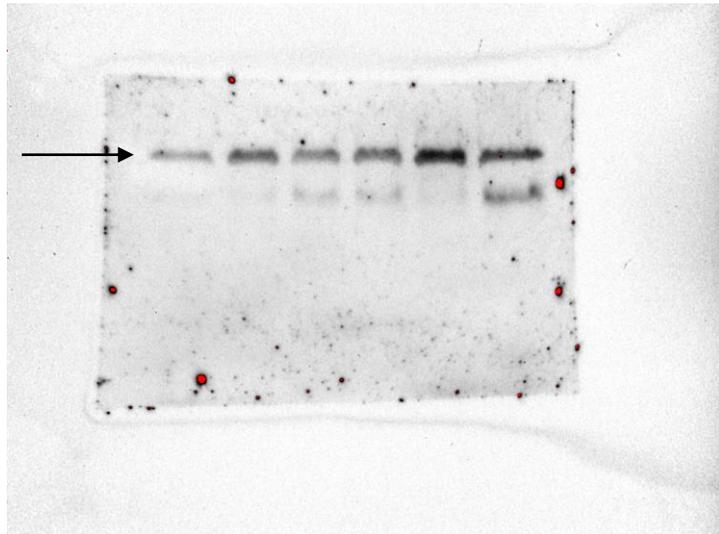
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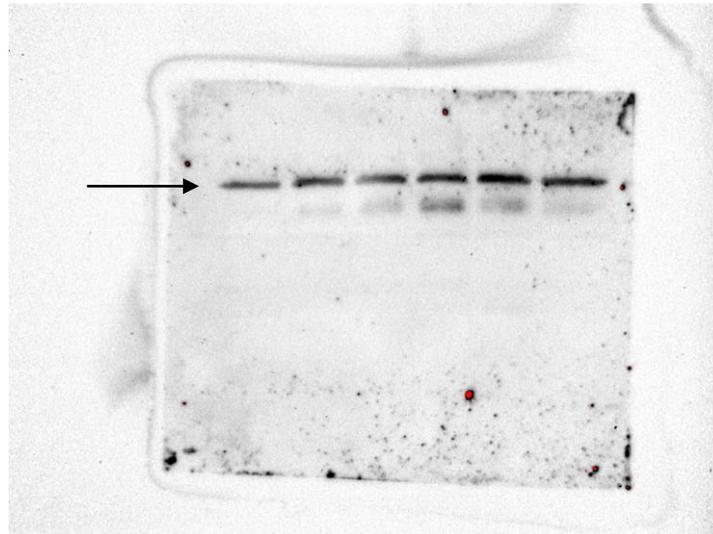
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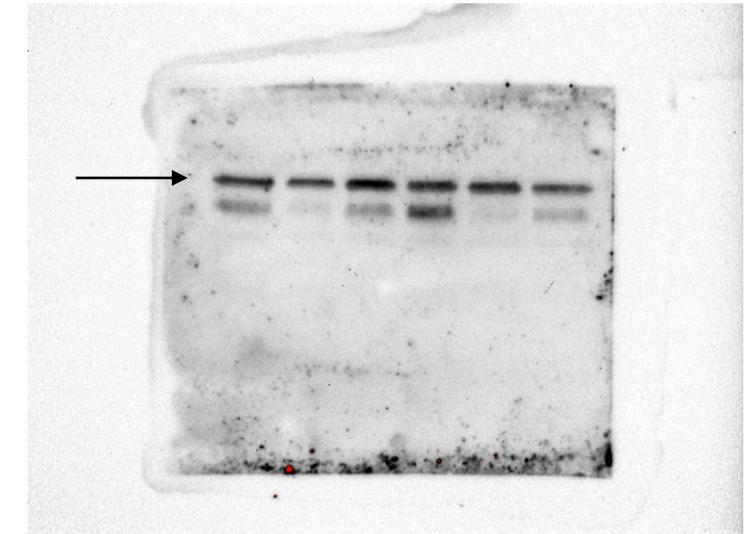
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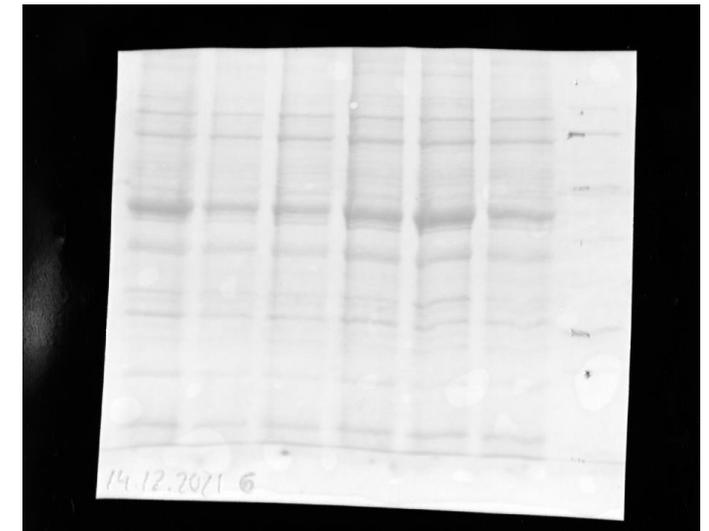
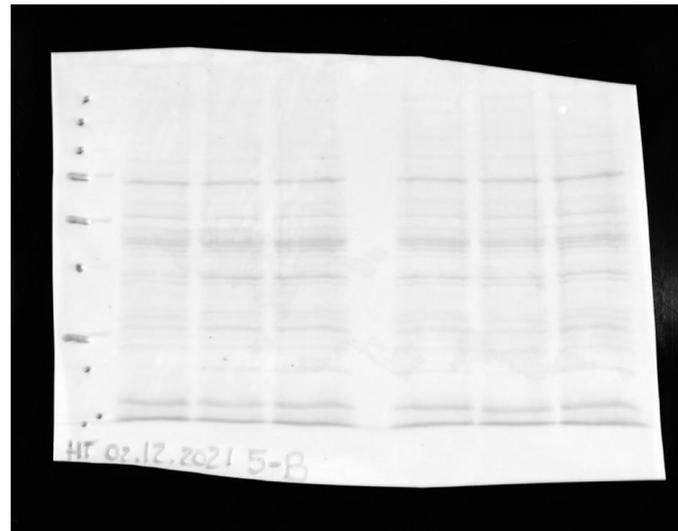
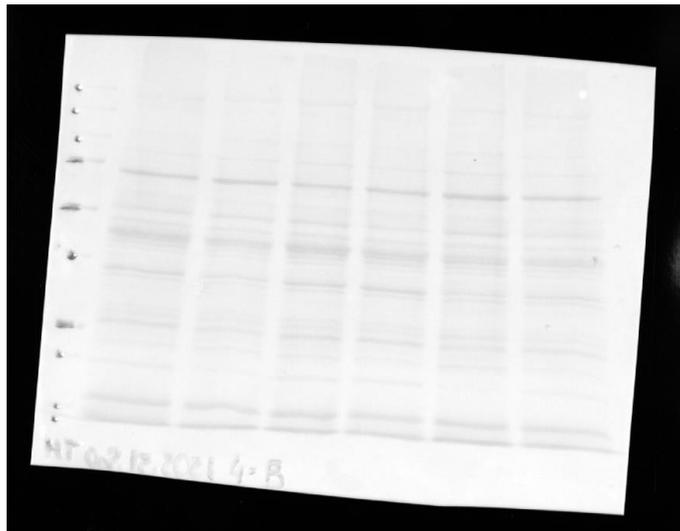
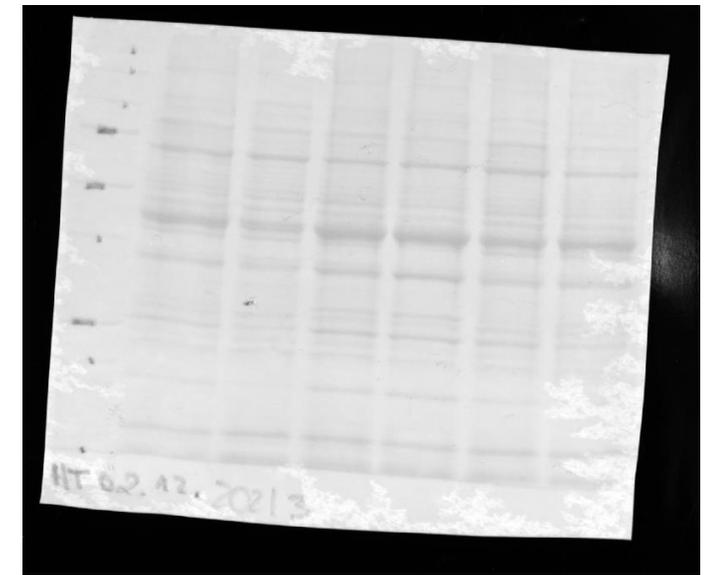
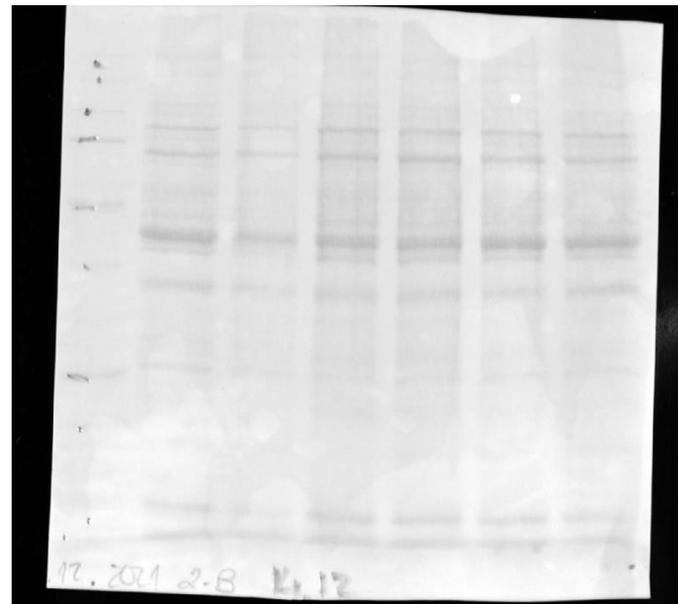
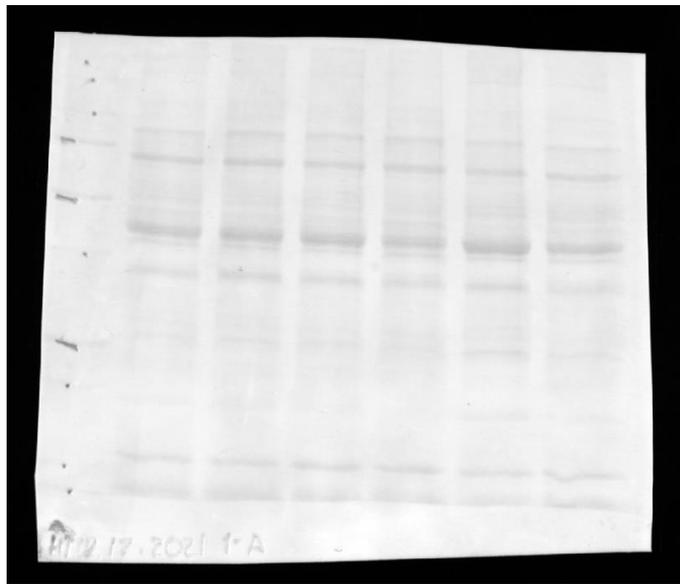
6



MWM: molecular weight marker

Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

BNIP3 - PonceauS₁

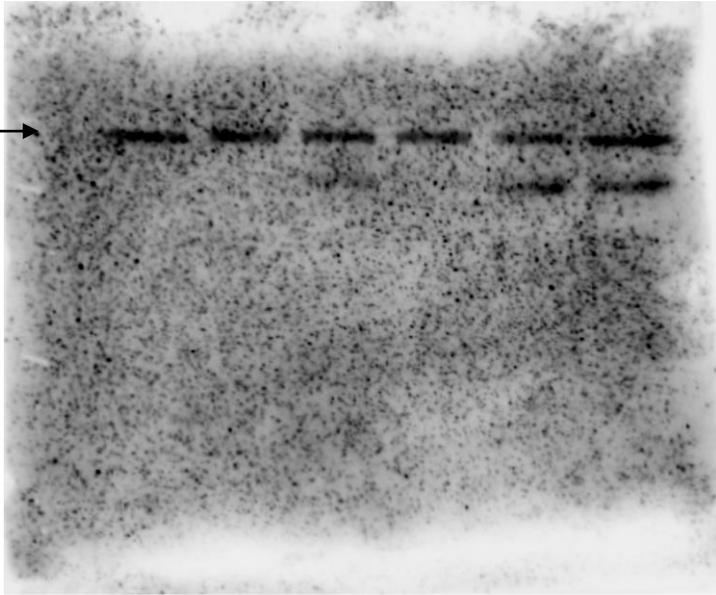


MWM: molecular weight marker

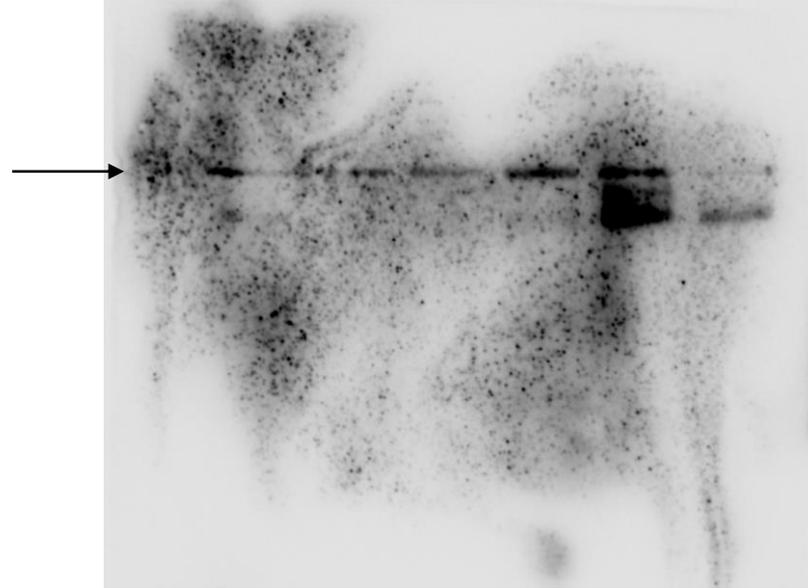
Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

BNIP3 - Blot

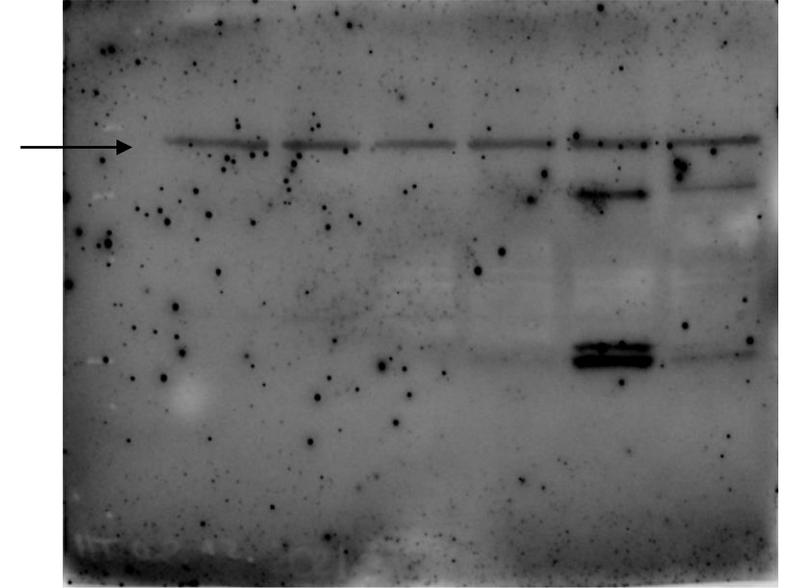
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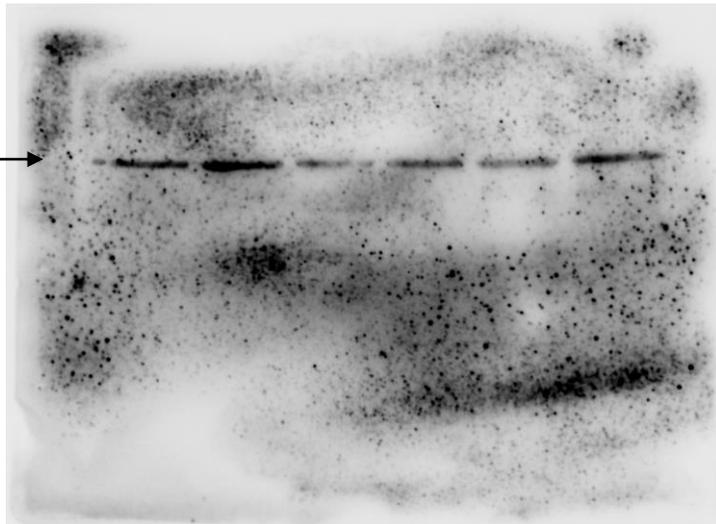
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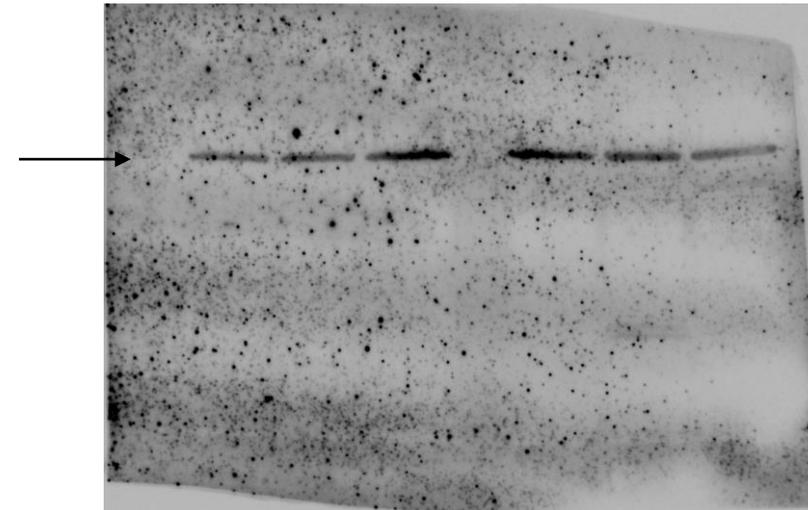
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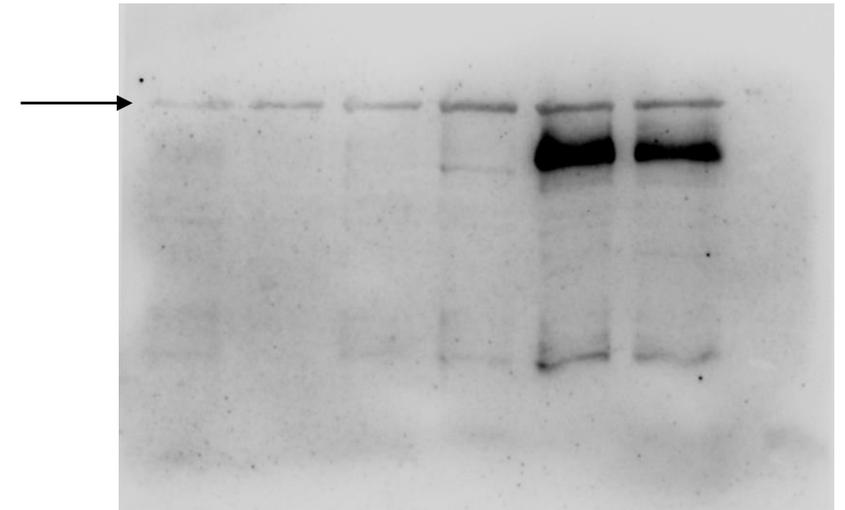
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6

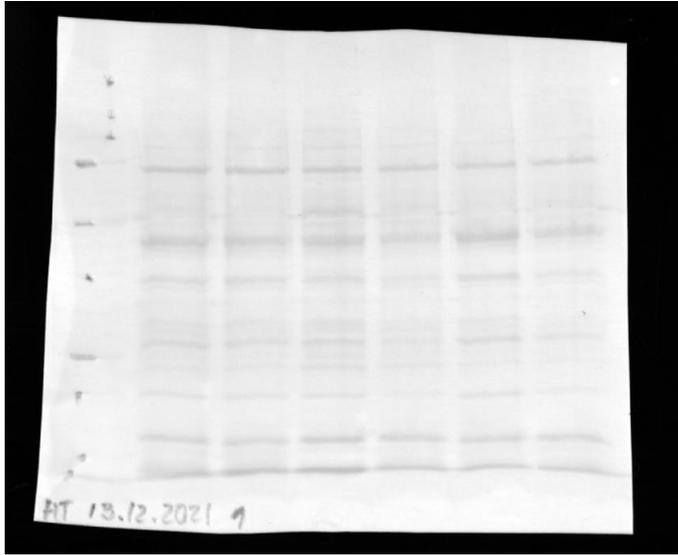


MWM: molecular weight marker

Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

BAX - PonceauS

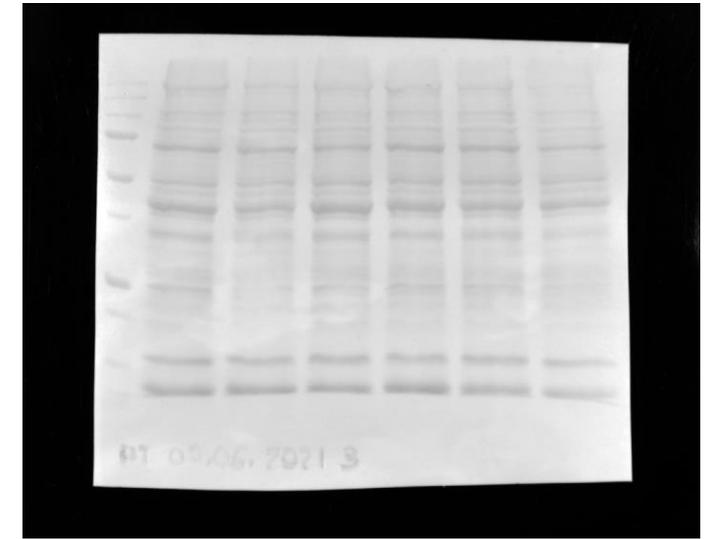
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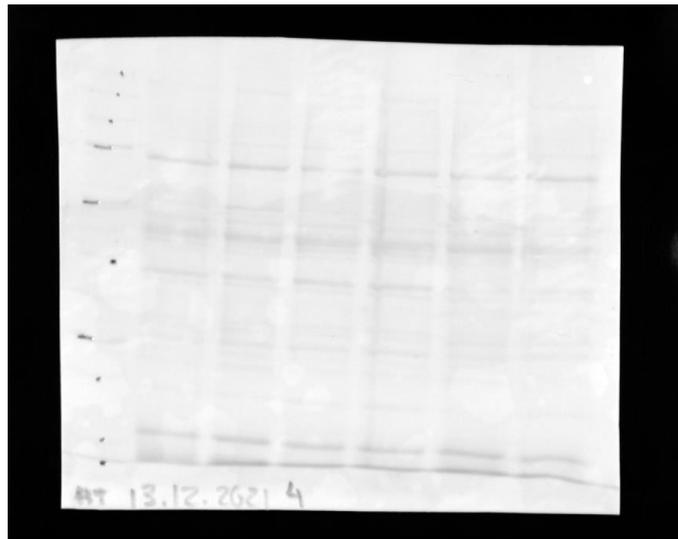
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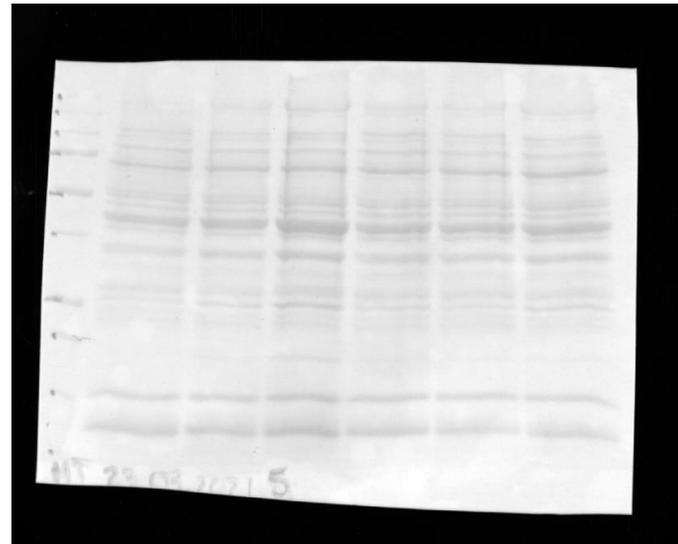
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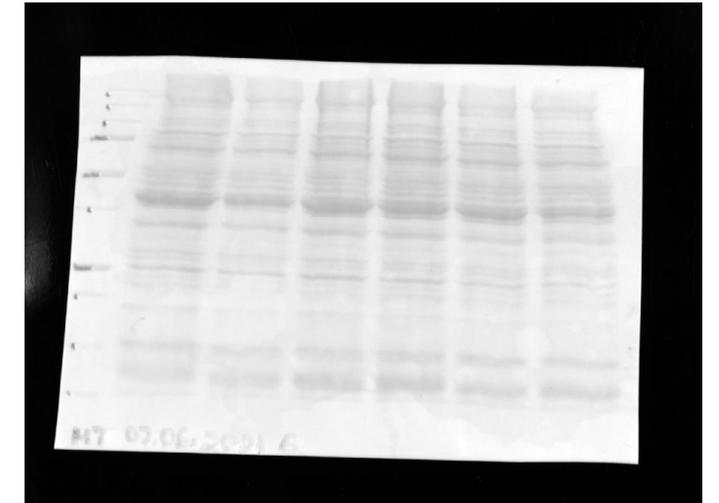
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MWM: molecular weight marker

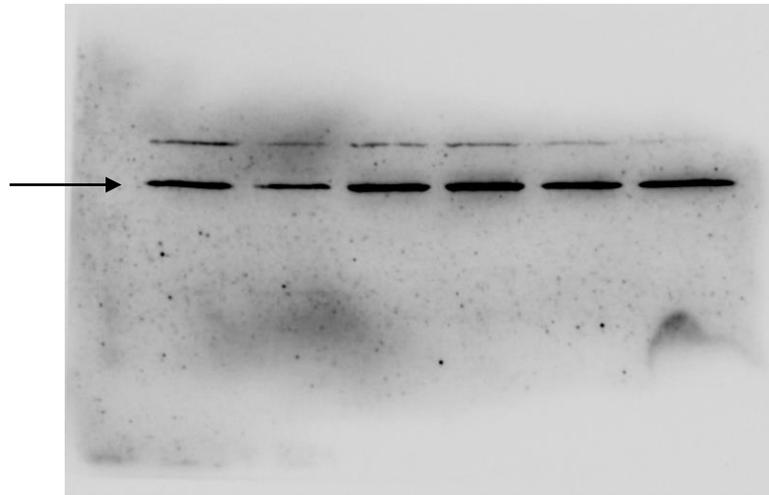
Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

BAX - Blot

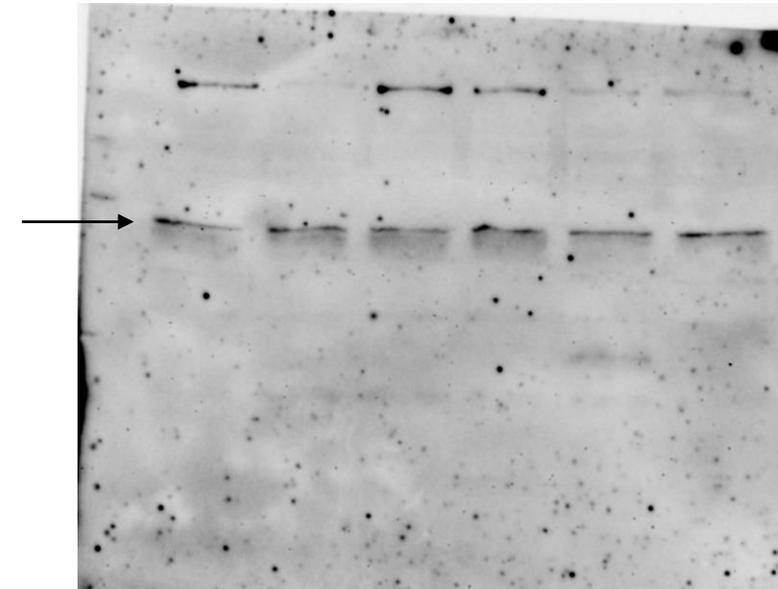
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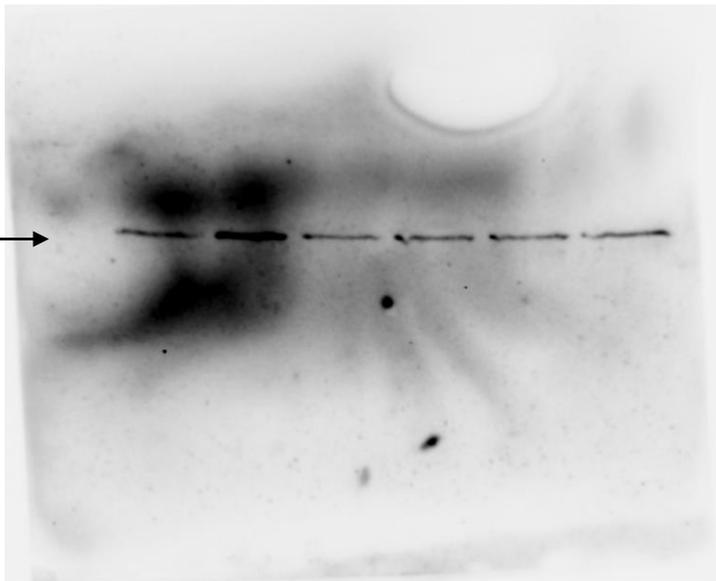
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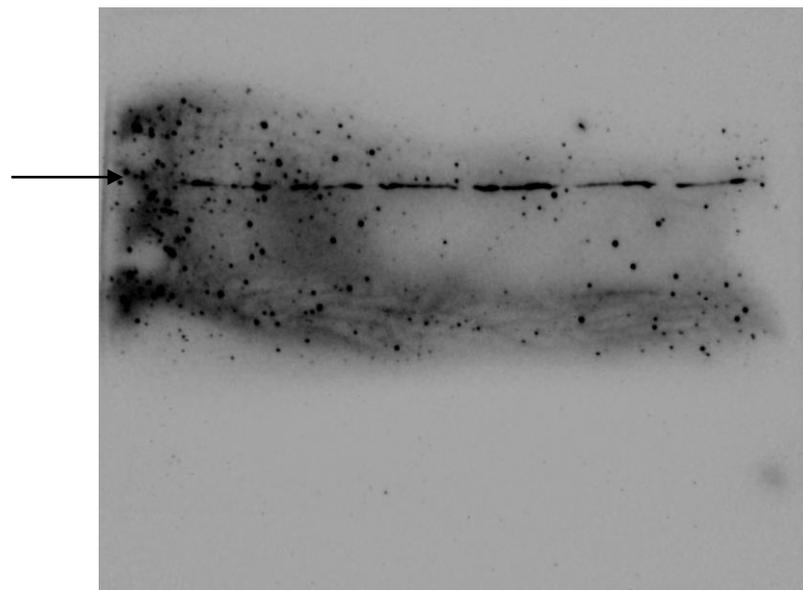
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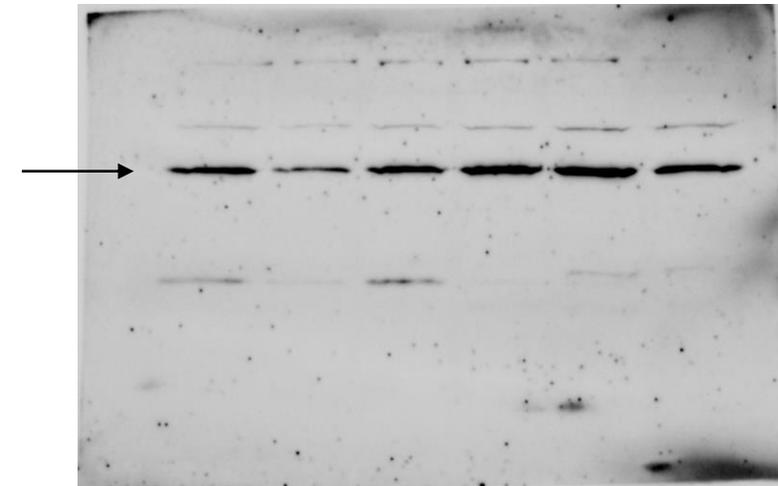
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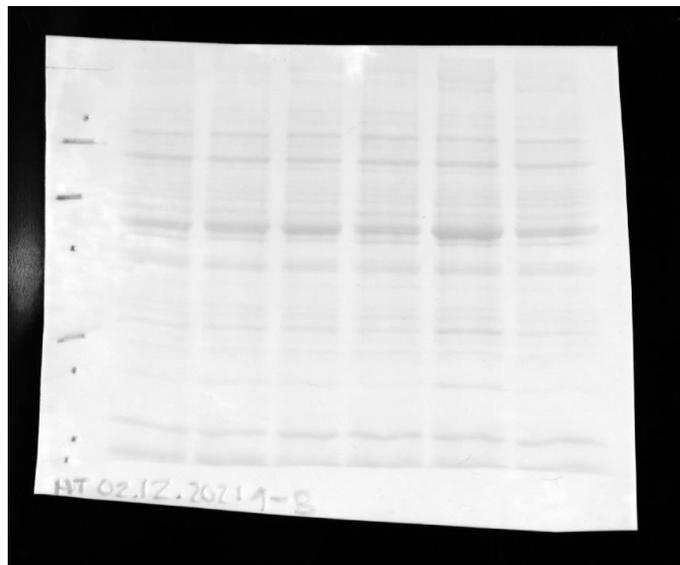


MWM: molecular weight marker

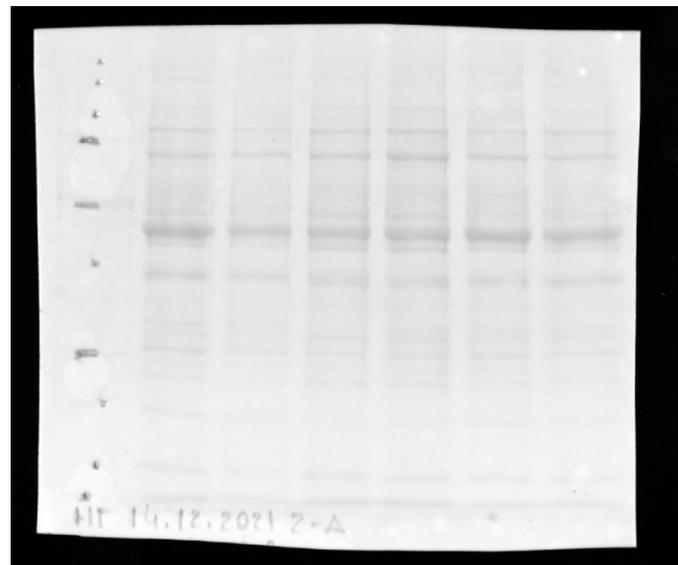
Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

BCL2 - PonceauS

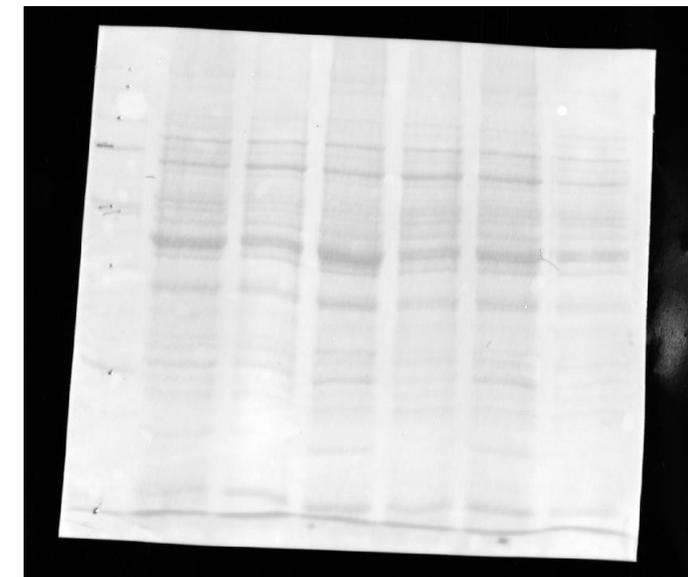
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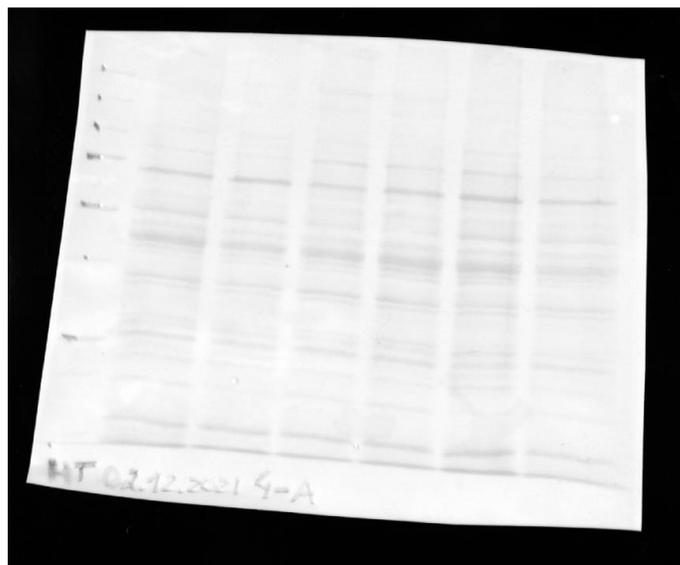
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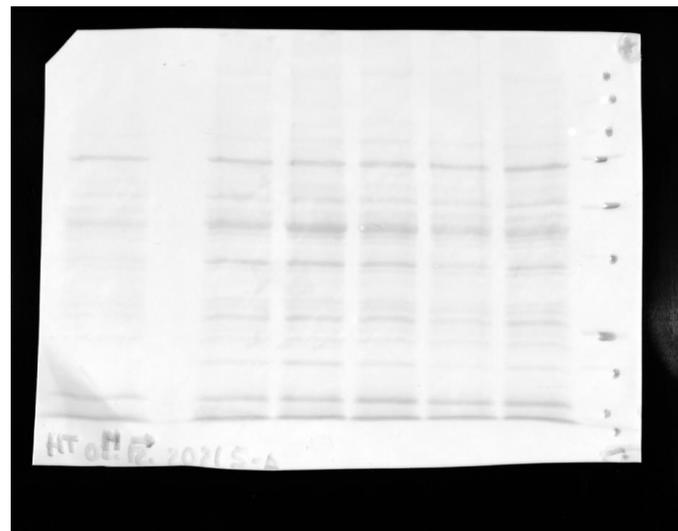
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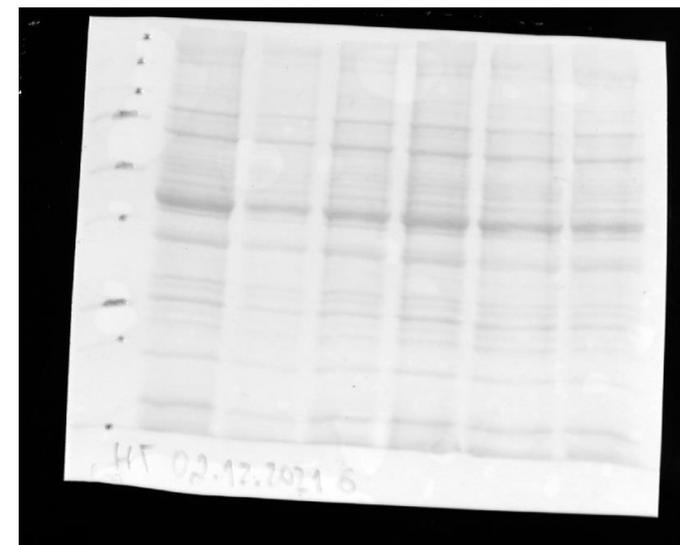
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6

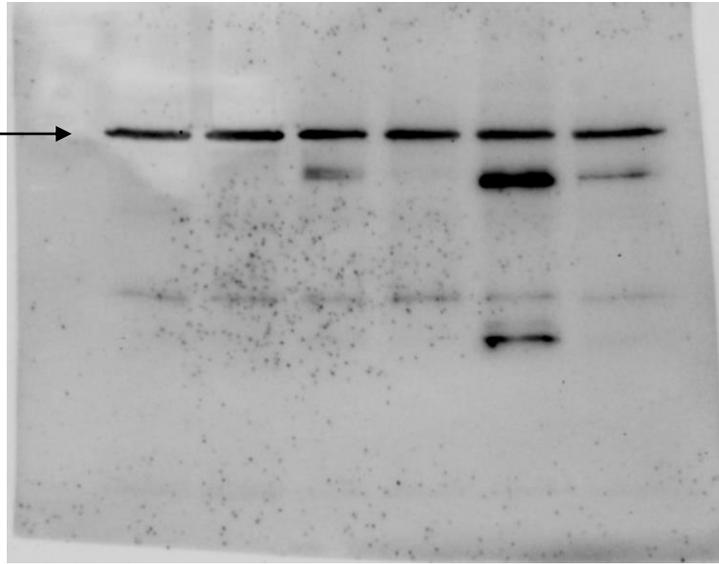


MWM: molecular weight marker

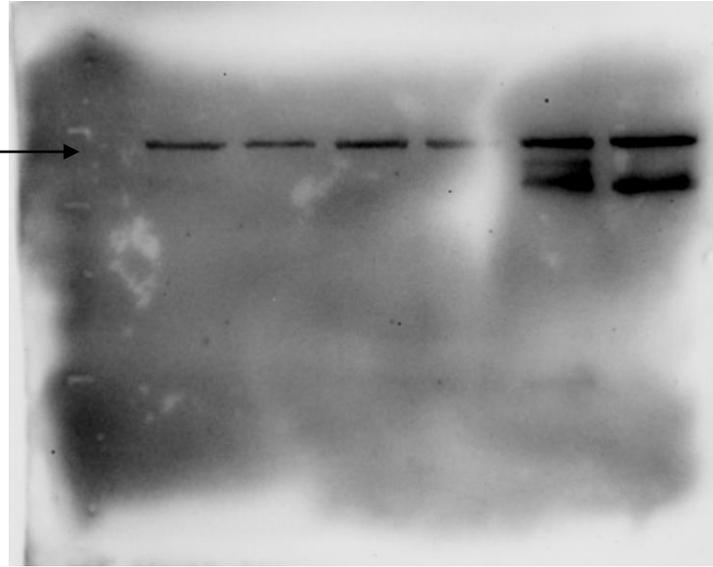
Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

BCL2 - Blot

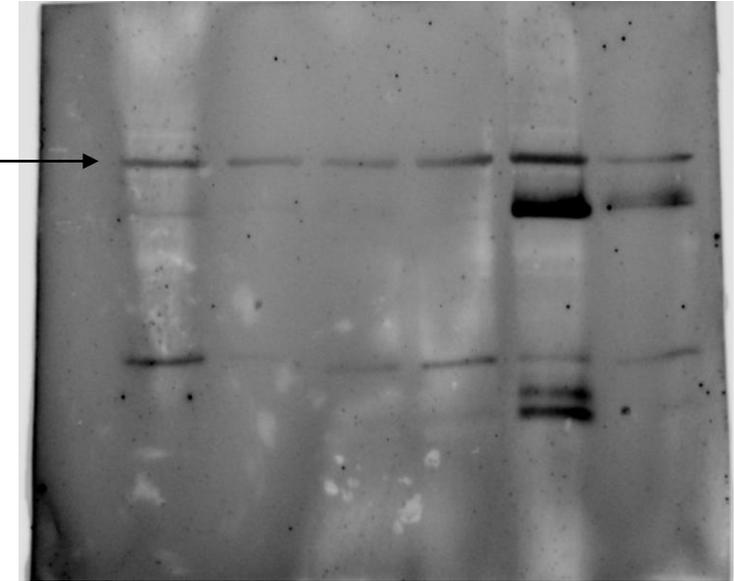
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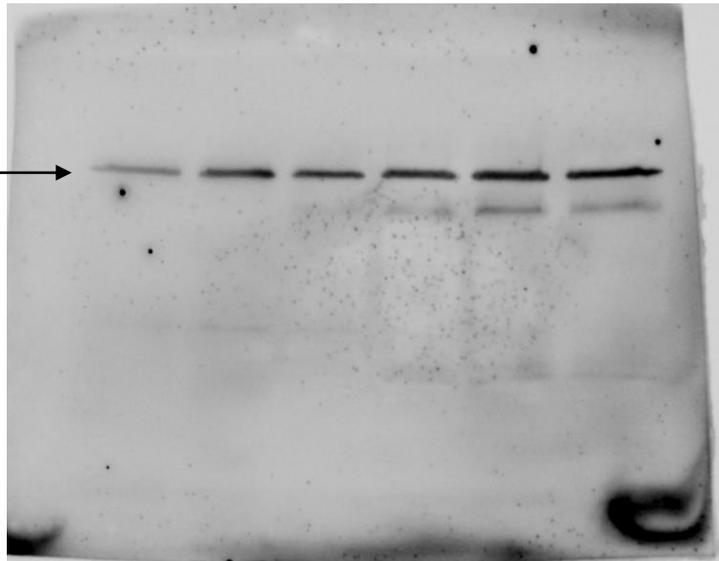
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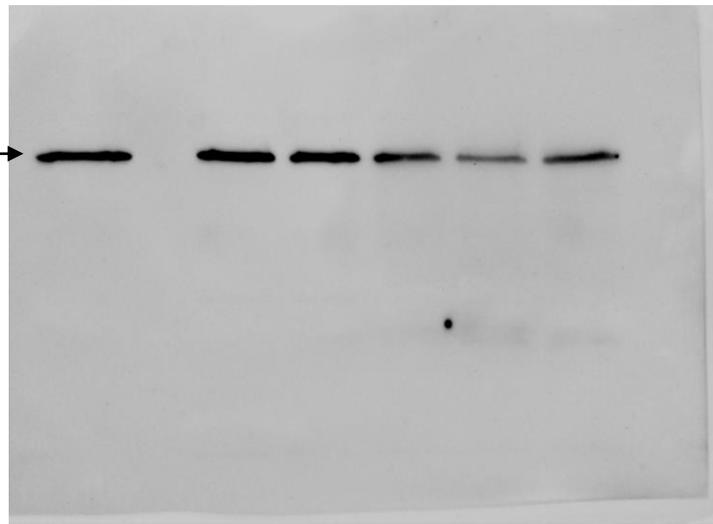
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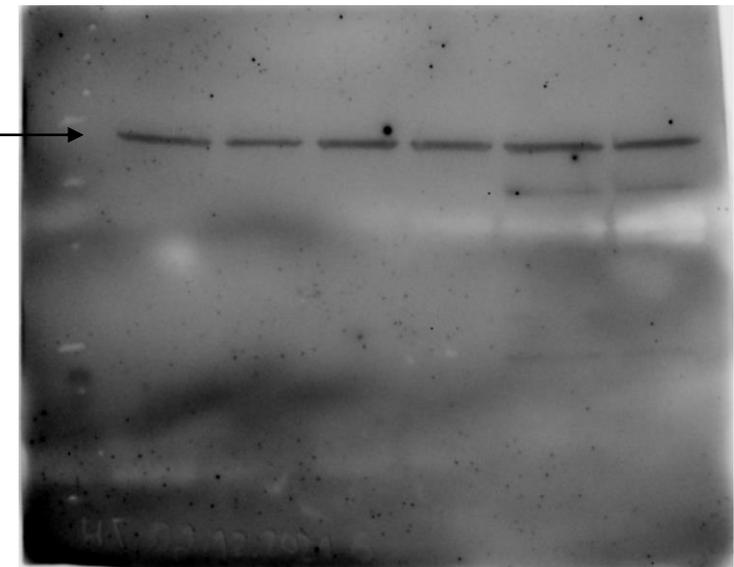
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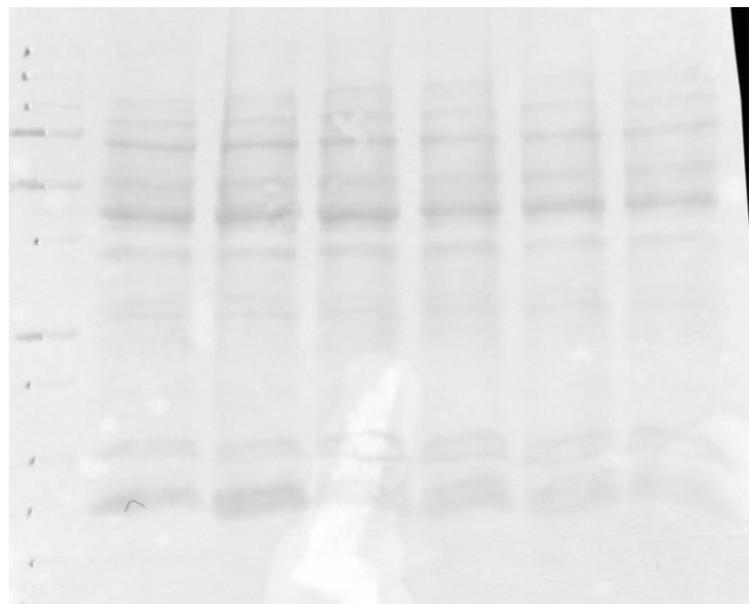
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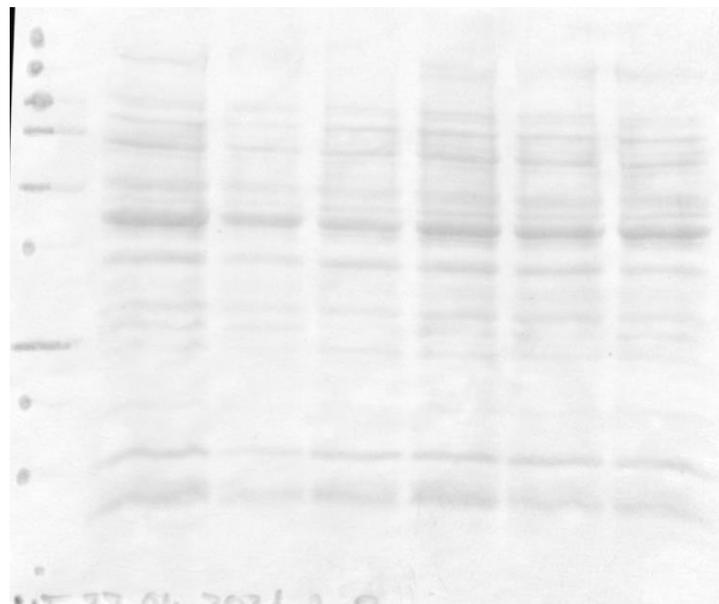
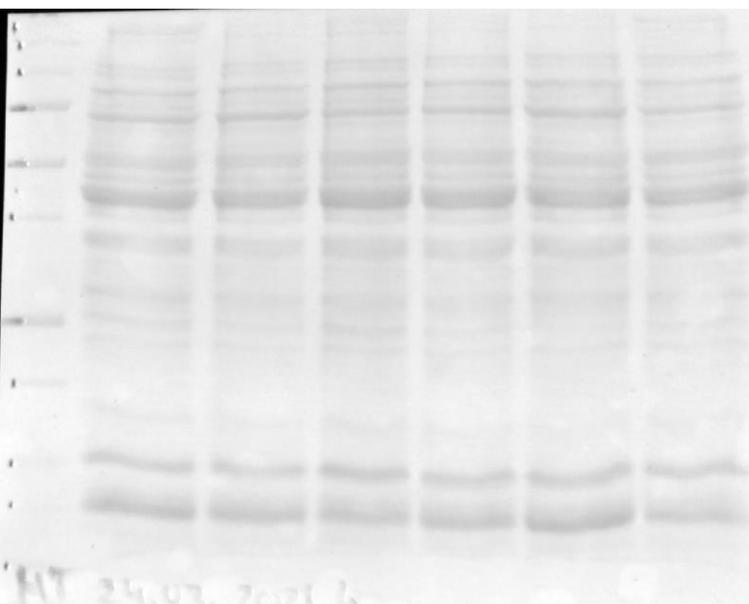
MWM: molecular weight marker

Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

HSP27 - PonceauS₁

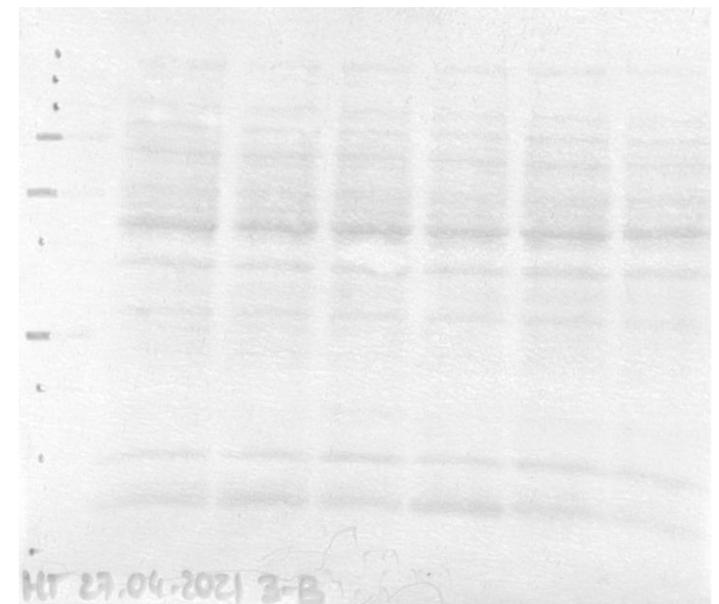
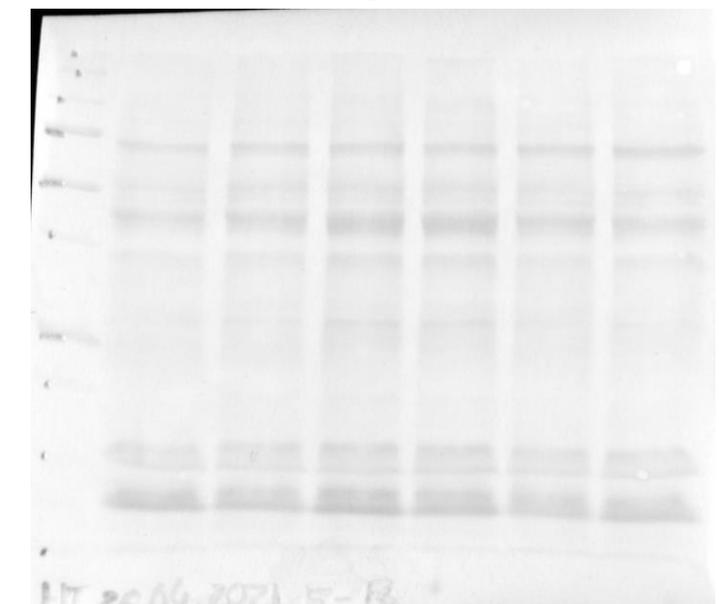


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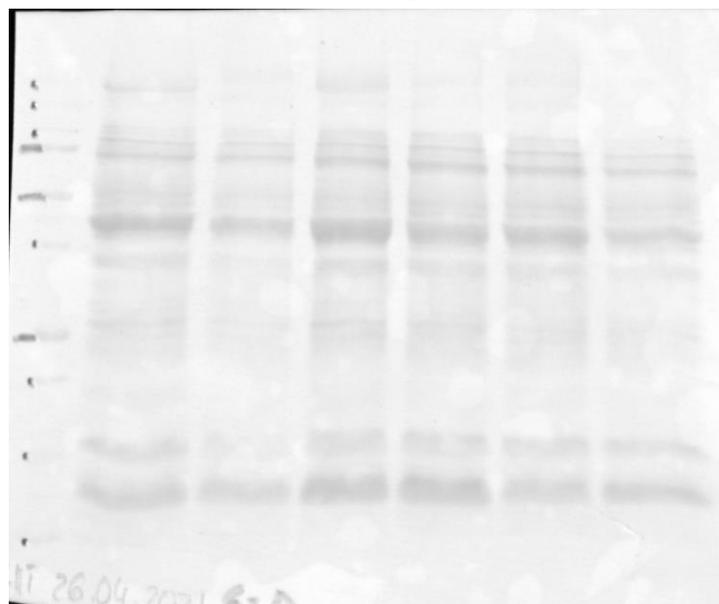
2

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3

6

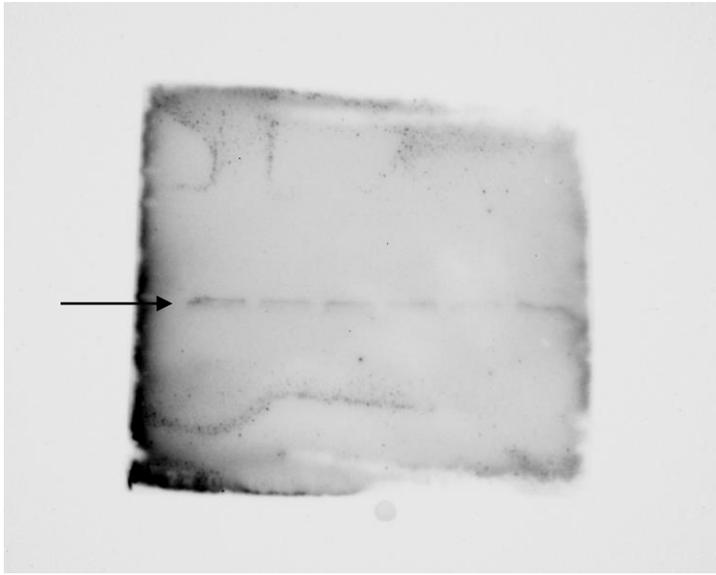


MWM: molecular weight marker

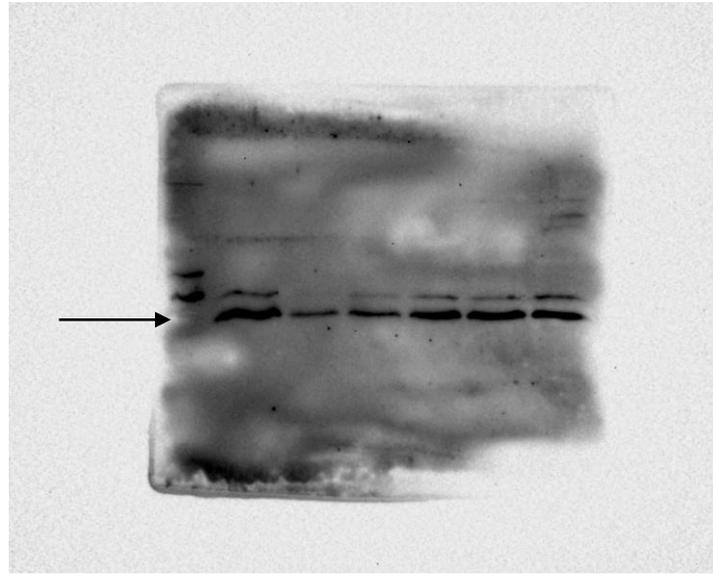
Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

HSP27 - Blot

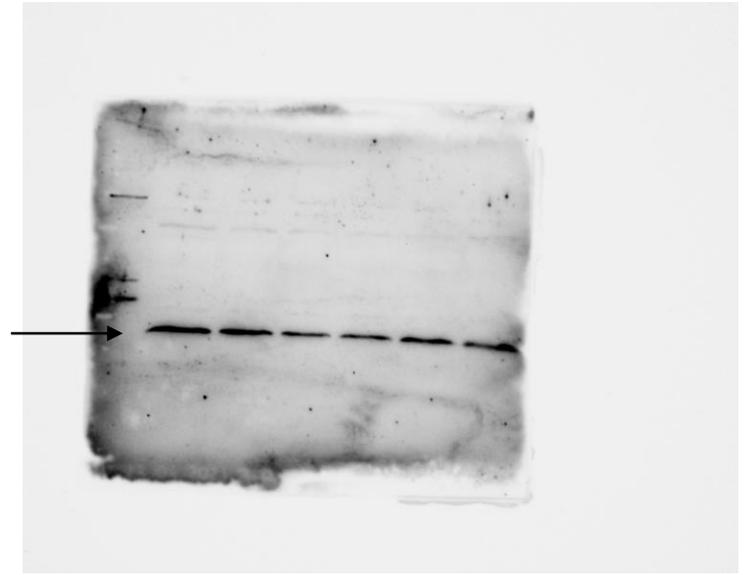
1



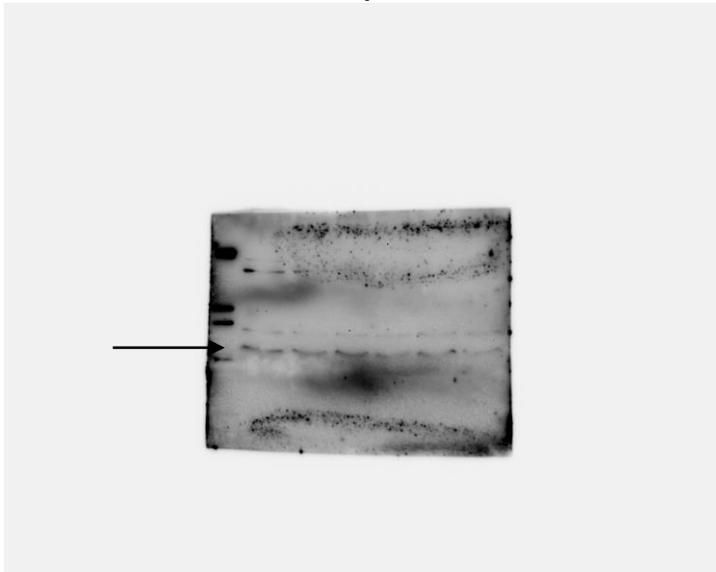
2



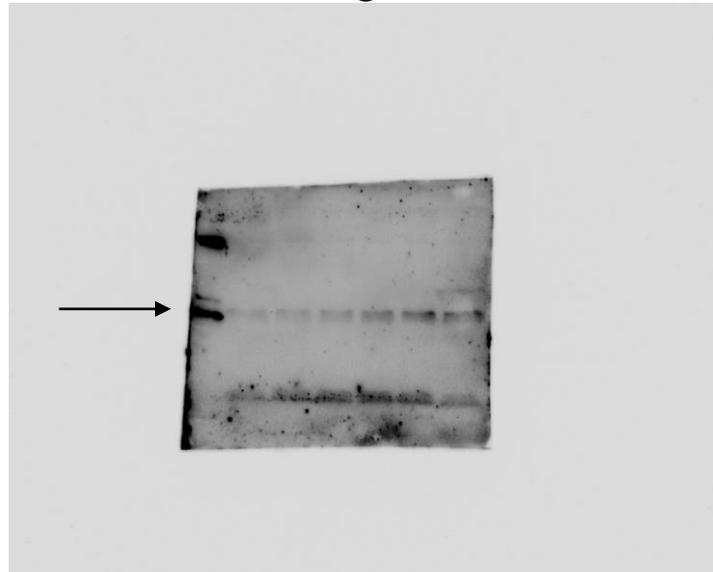
3



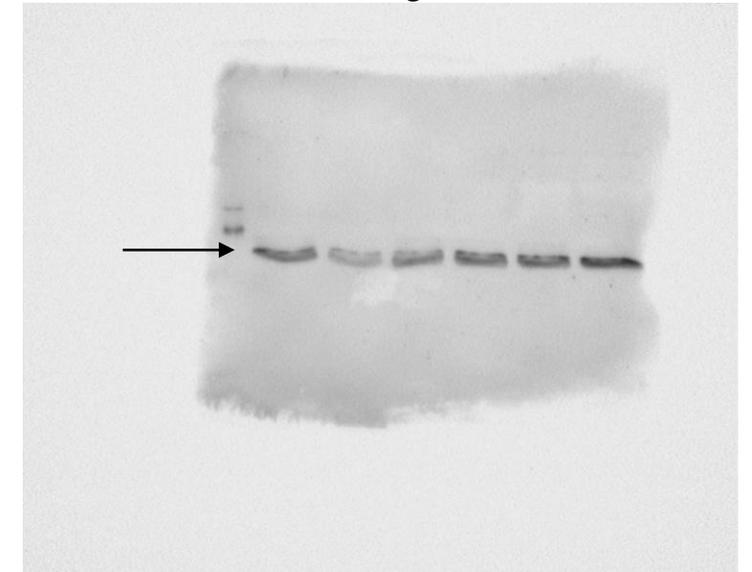
4



5



6



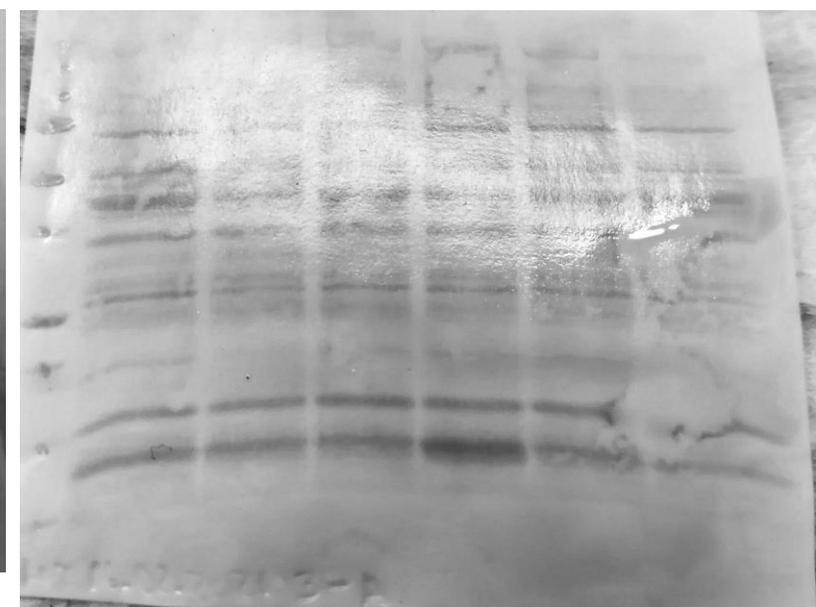
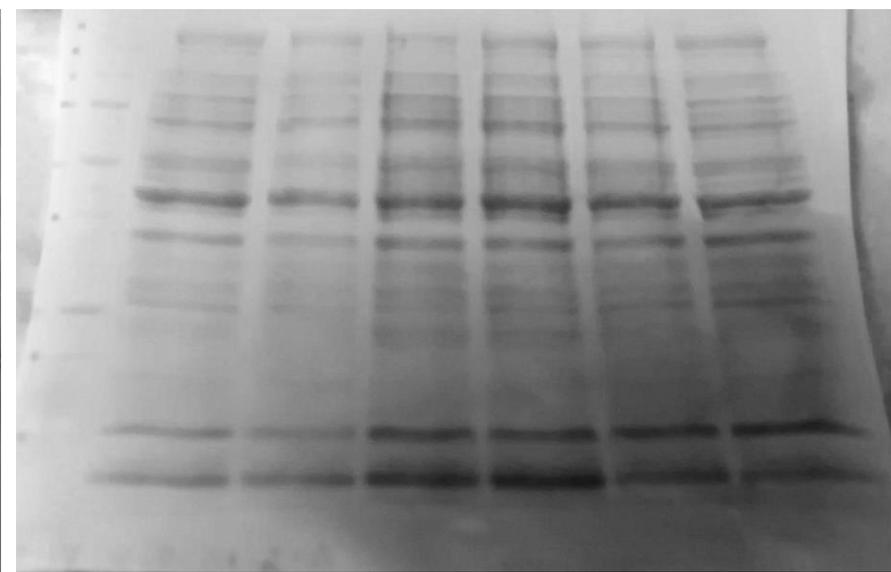
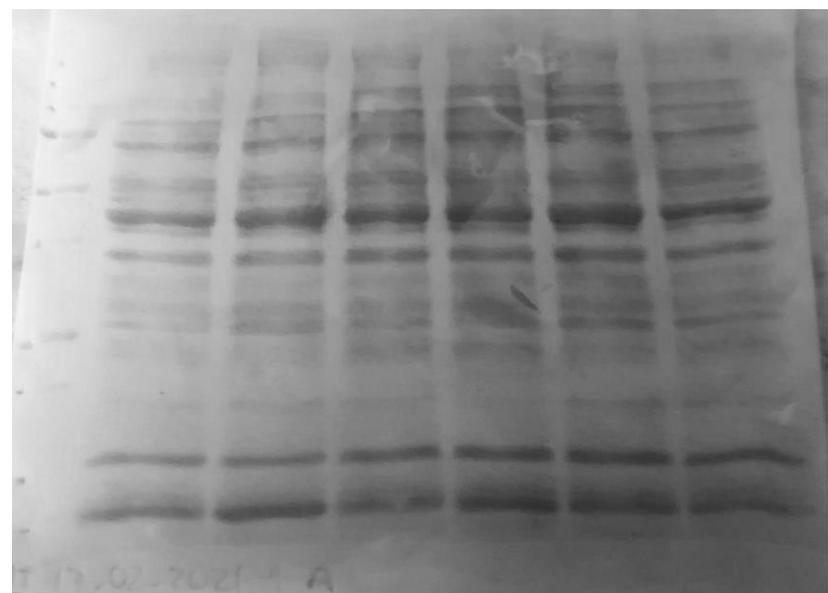
MWM: molecular weight marker

Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

HSP70 - PonceauS₁

2

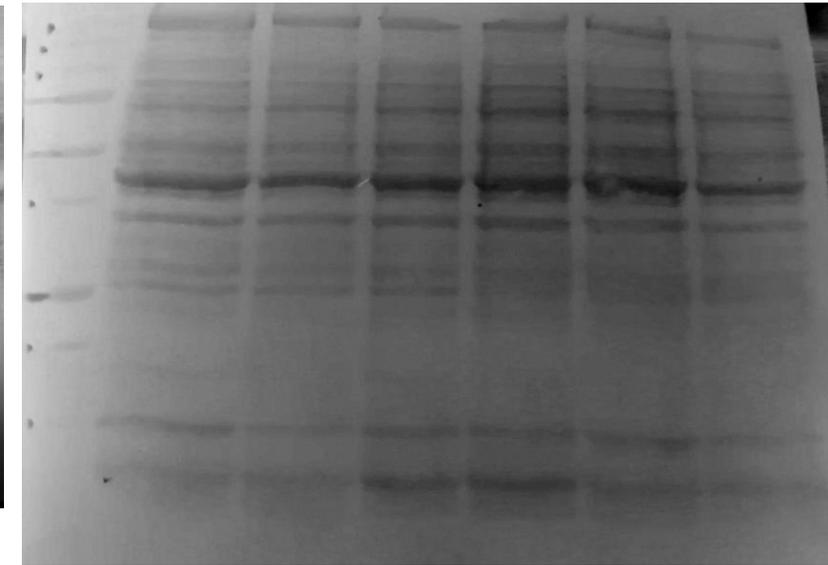
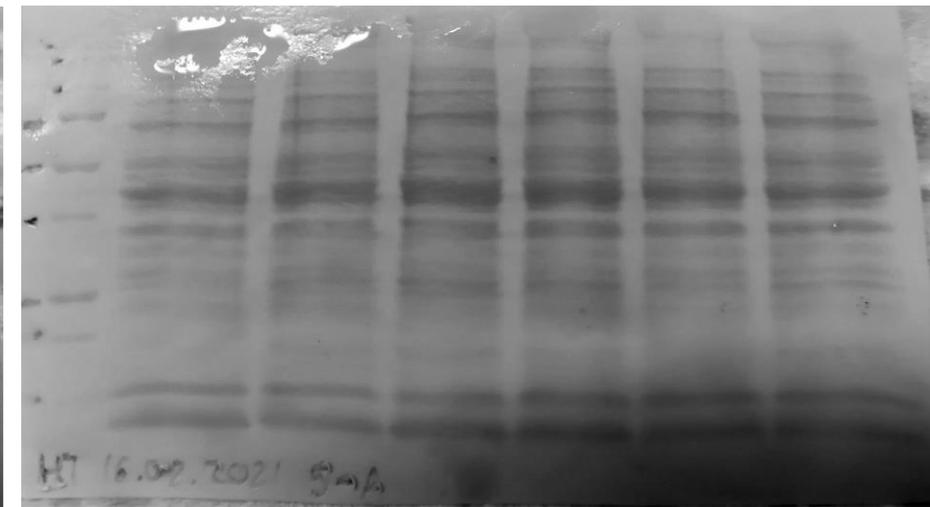
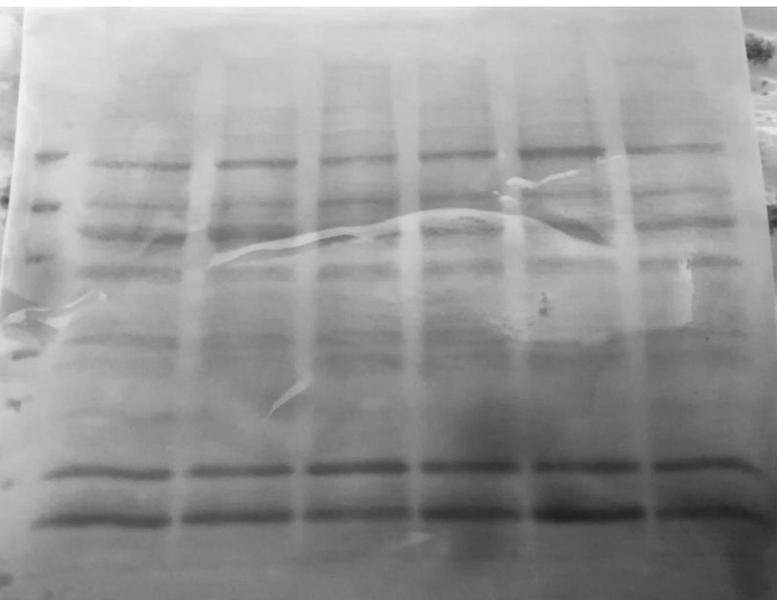
3



4

5

6

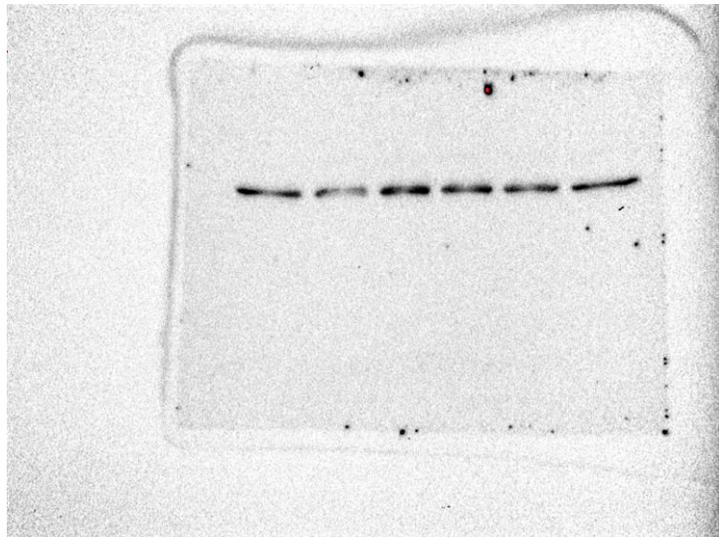


MWM: molecular weight marker

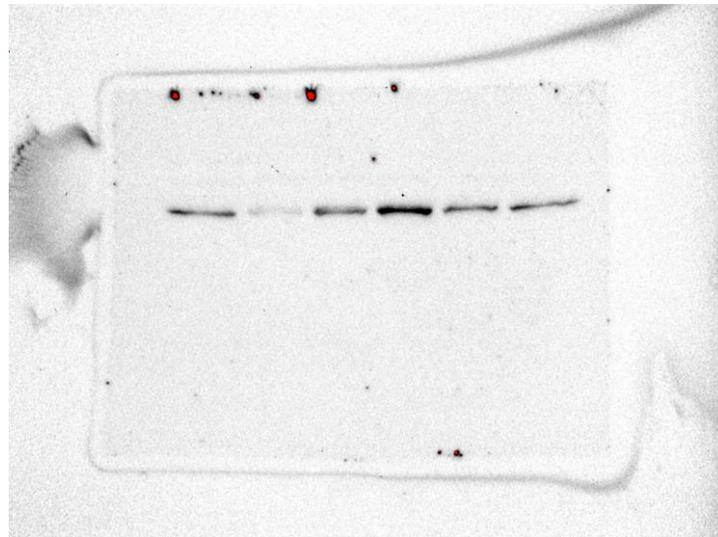
Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

HSP70 - Blot

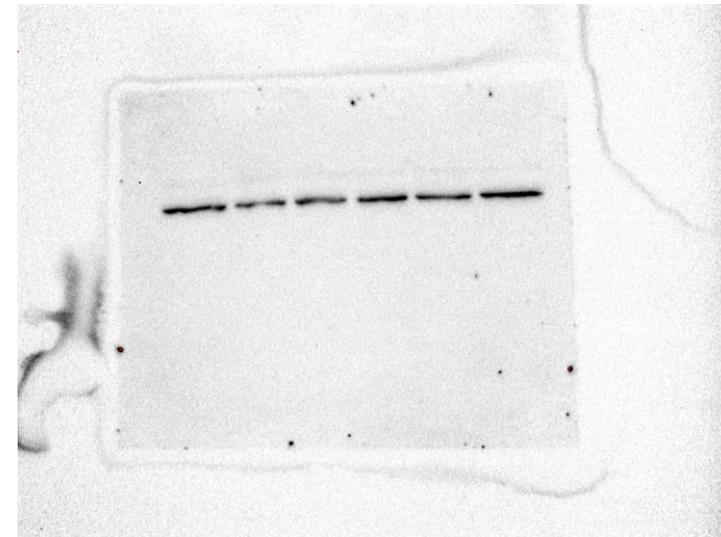
1



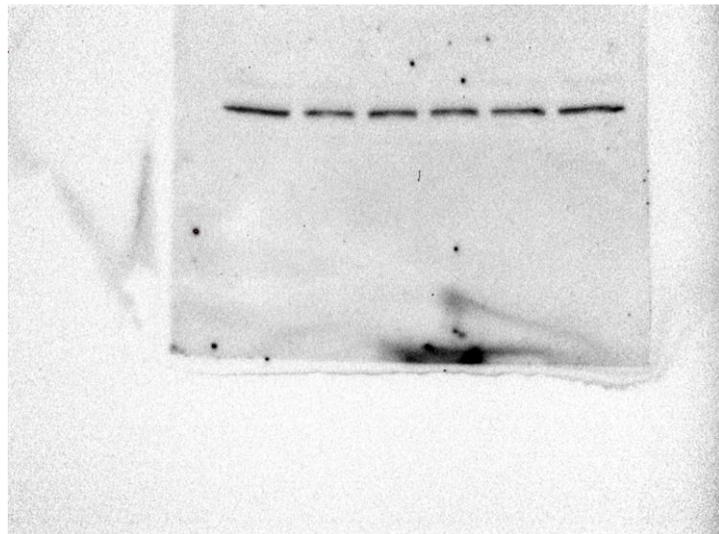
2



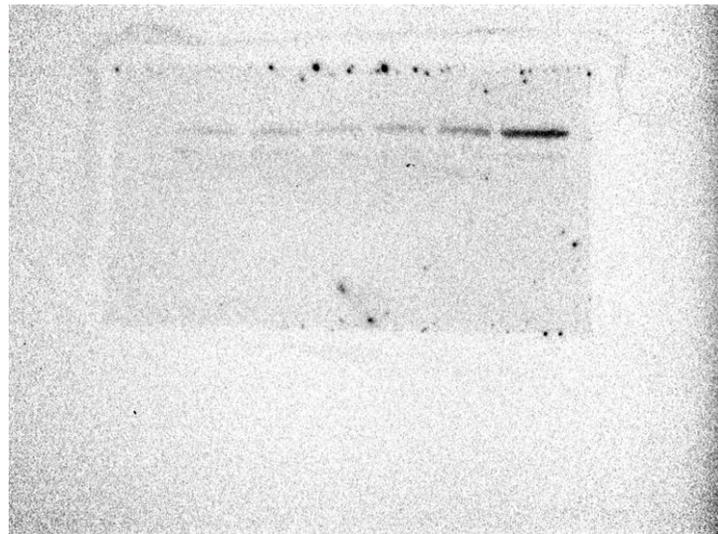
3



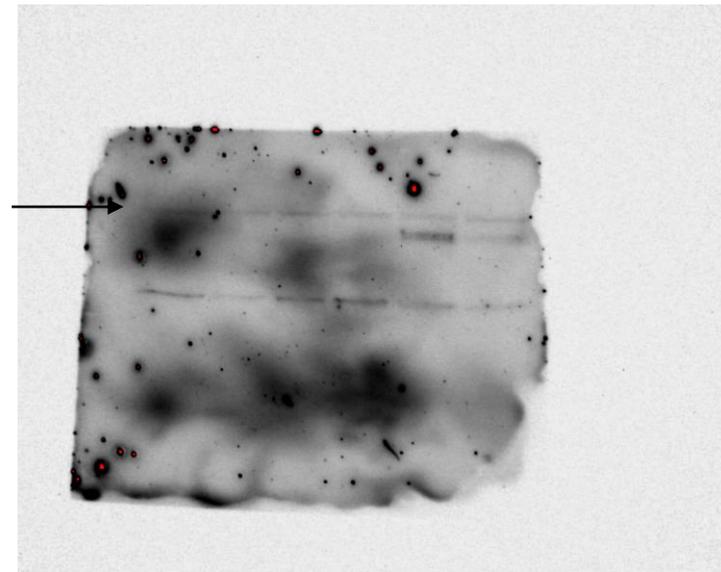
4



5



6

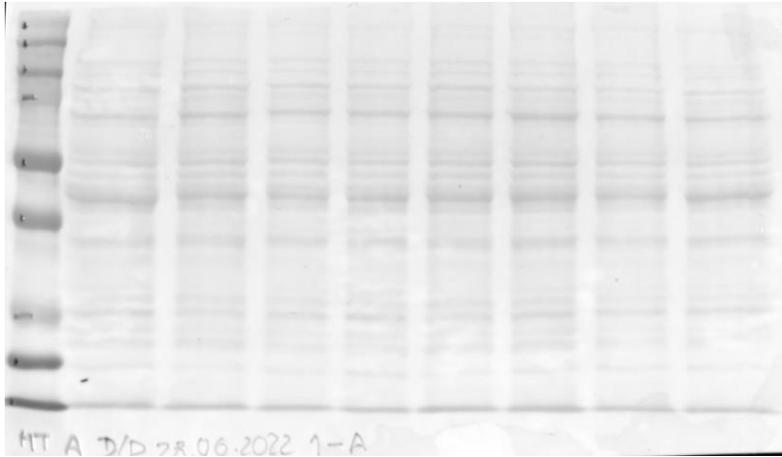


MWM: molecular weight marker

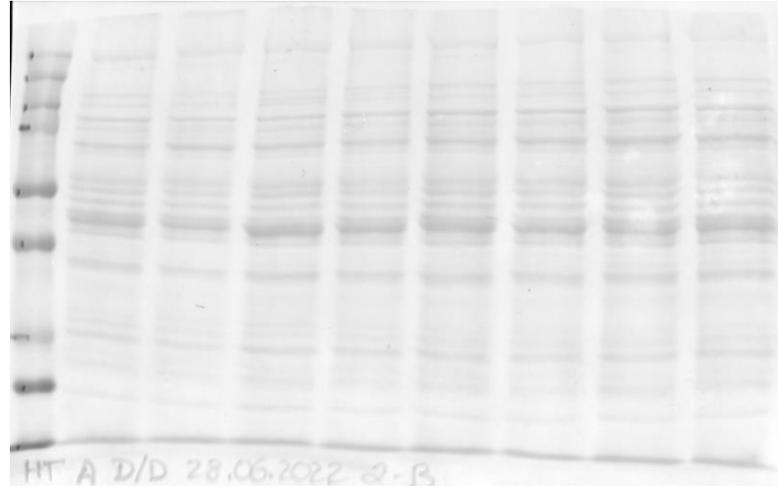
Samples order from the left in each of the 6 membranes: MWM | MTX | DOX18 | CTRL1 | DOX1 | CTRL2 | DOX2

SCFR - PonceauS

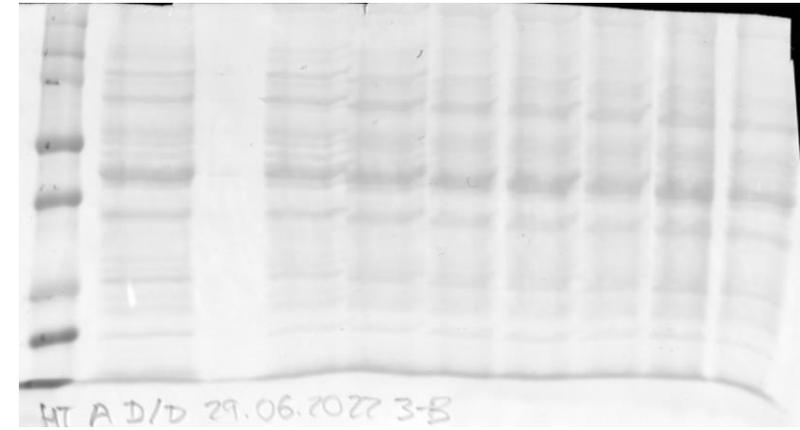
1



2



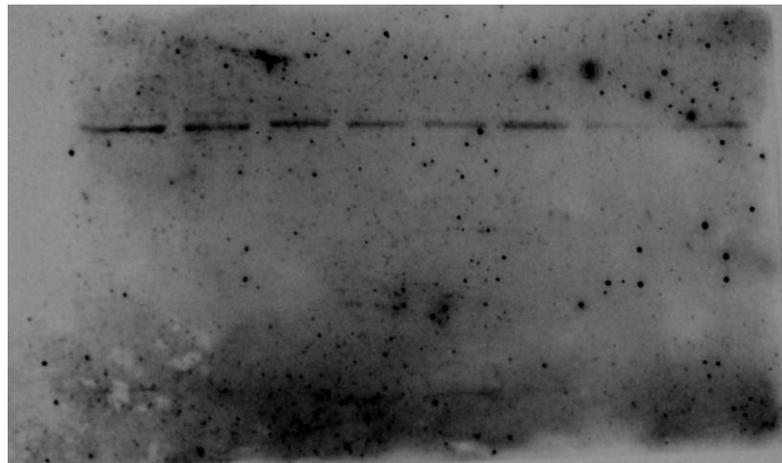
3



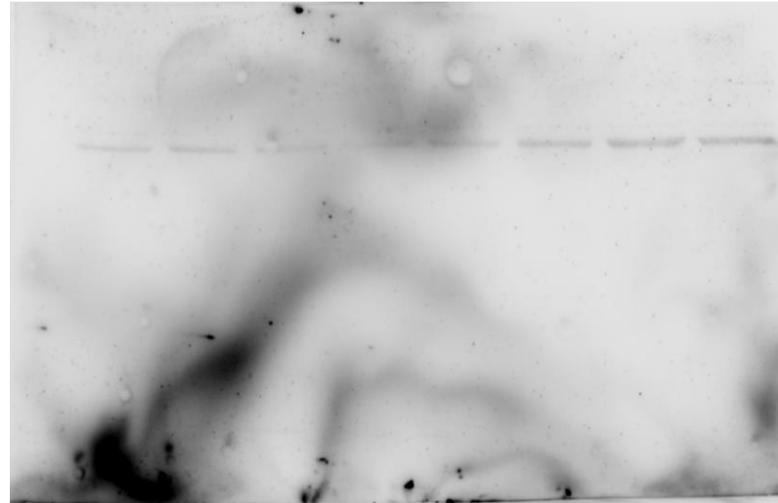
Samples order from the left in each of the 3 membranes: MWM | CTRL1-1 | DOX1-1 | CTRL2-1 | DOX2-1 | CTRL1-2 | DOX1-2 | CTRL2-2 | DOX2-2
MWM: molecular weight marker

SCFR - Blot

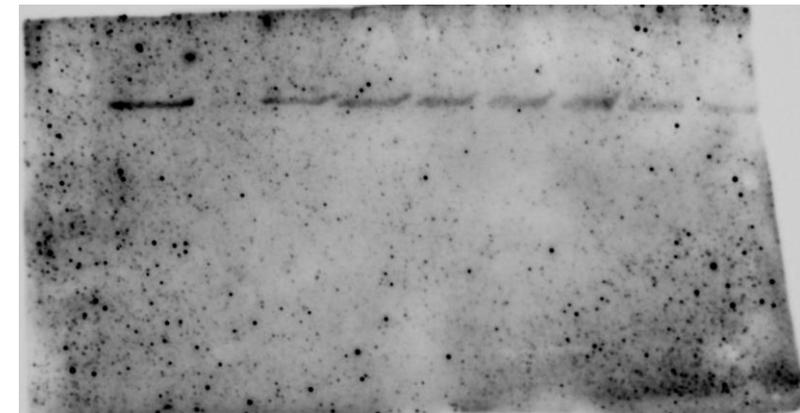
1



2

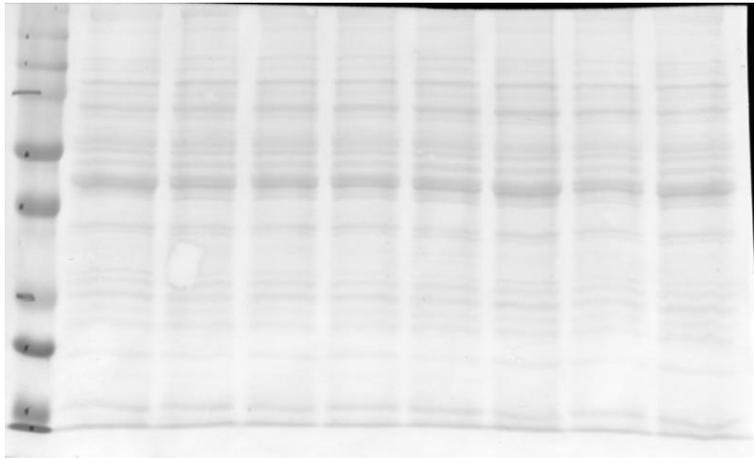


3

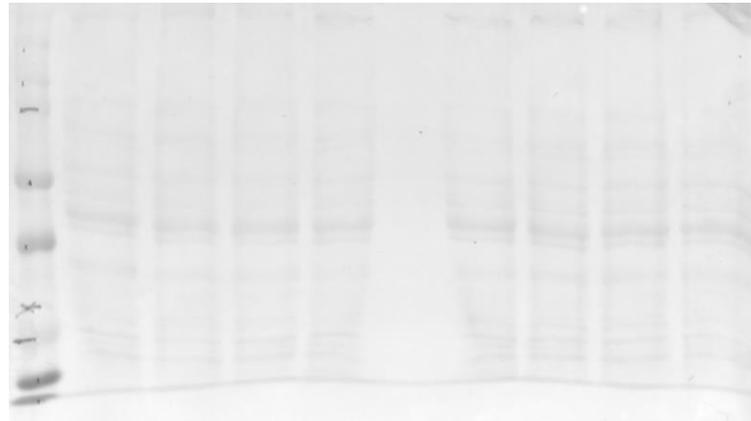


C/EBP β - PonceauS

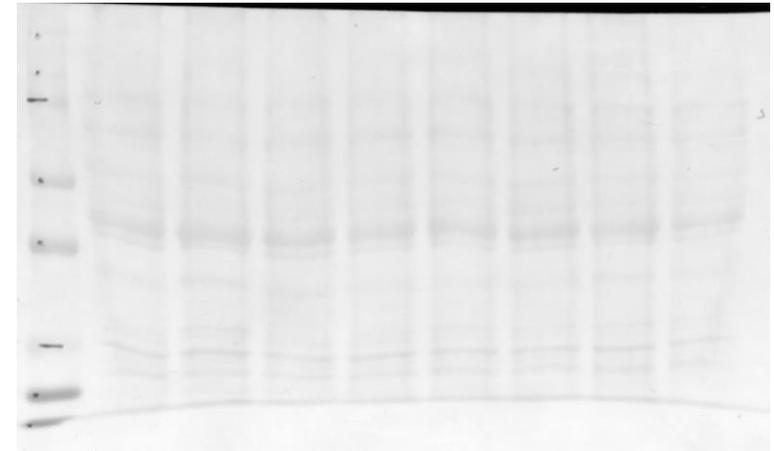
1



2



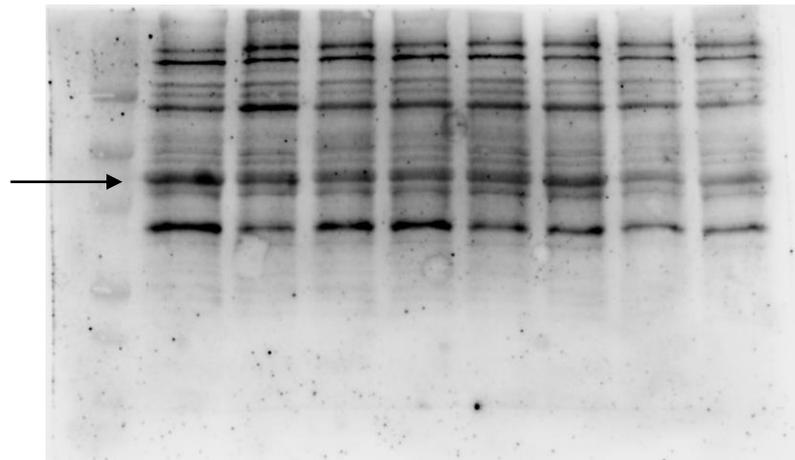
3



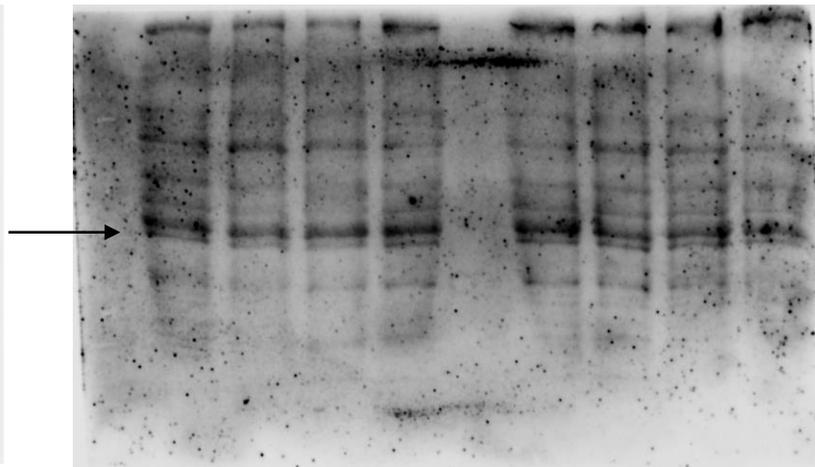
Samples order from the left in each of the 3 membranes: MWM | CTRL1-1 | DOX1-1 | CTRL2-1 | DOX2-1 | CTRL1-2 | DOX1-2 | CTRL2-2 | DOX2-2
MWM: molecular weight marker

C/EBP β - Blot

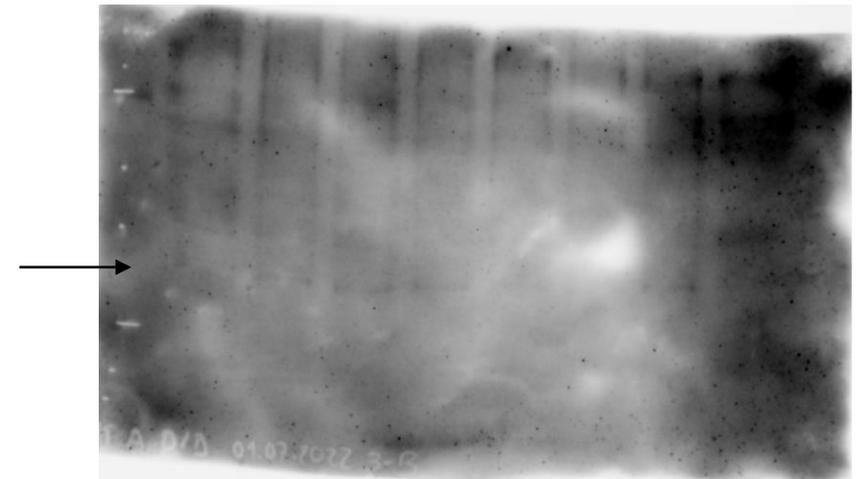
1



2

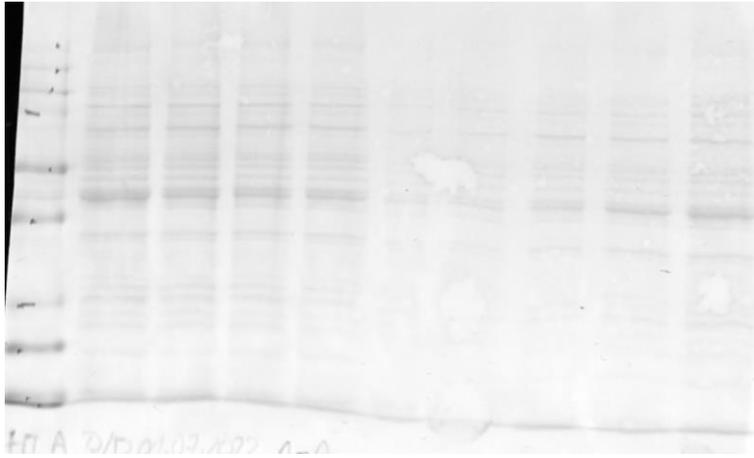


3

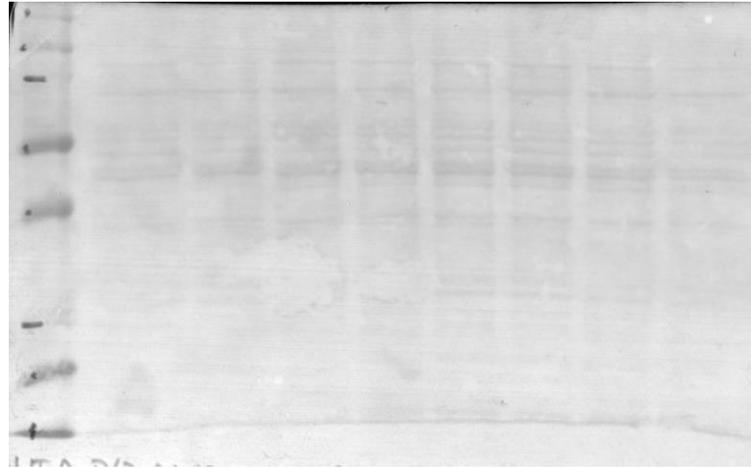


CITED4 - PonceauS

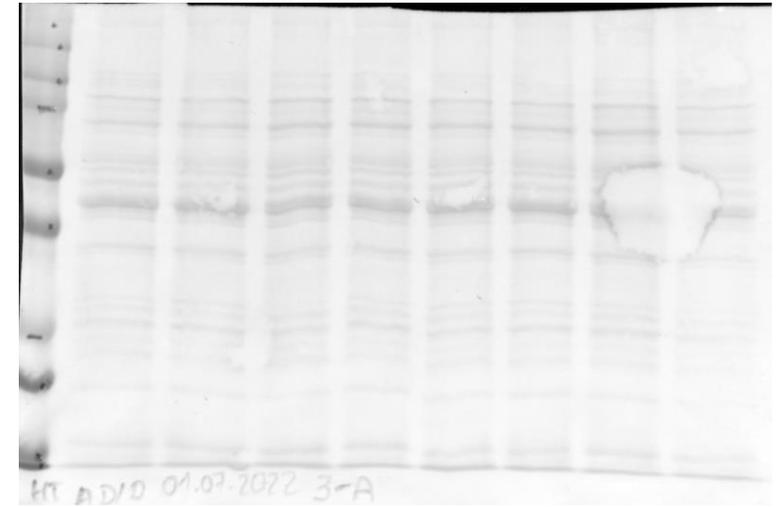
1



2



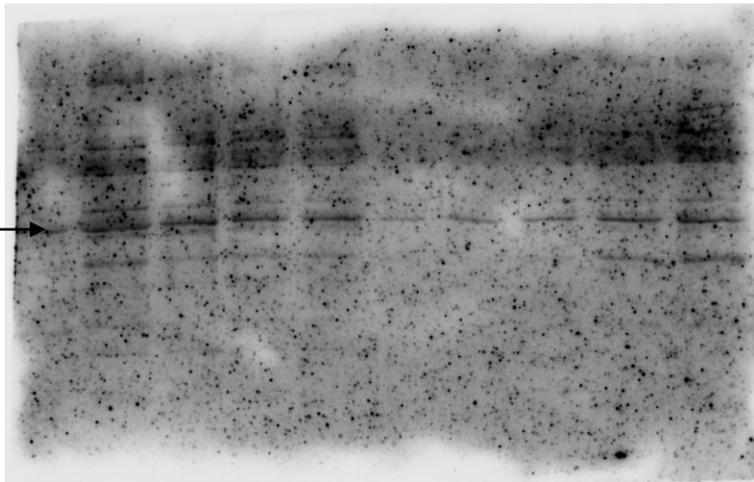
3



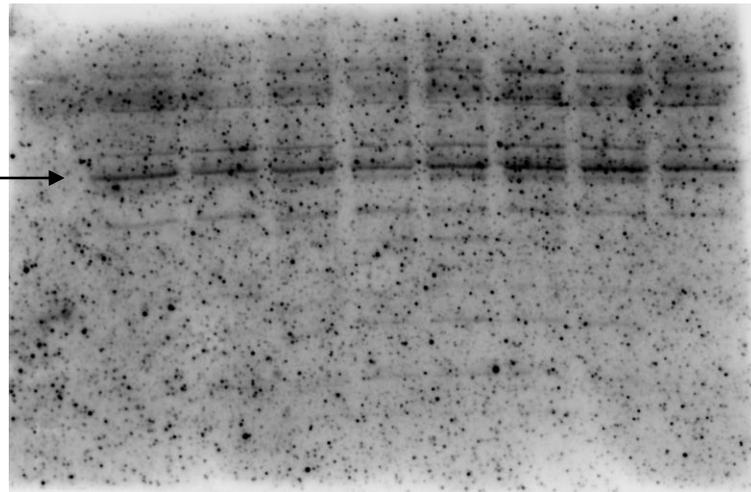
Samples order from the left in each of the 3 membranes: MWM | CTRL1-1 | DOX1-1 | CTRL2-1 | DOX2-1 | CTRL1-2 | DOX1-2 | CTRL2-2 | DOX2-2
MWM: molecular weight marker

CITED4 - Blot

1



2



3

