

Western Blot

Urothelial layer (UL)

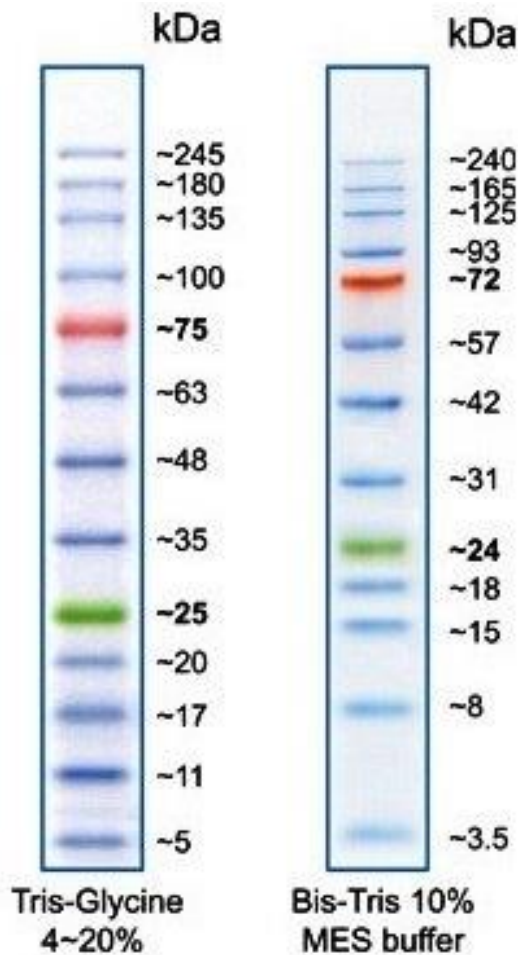
Muscular layer (ML)

Control (C)

Ketamine (K)

Ketamine+ Rapamycin (K+R)

Ketamine+ Wortmannin (K+W)



Western blot

Protein: mTOR

1^o Ab: Cell Signaling, rabbit monoclonal IgG

Catalog number: no.2983

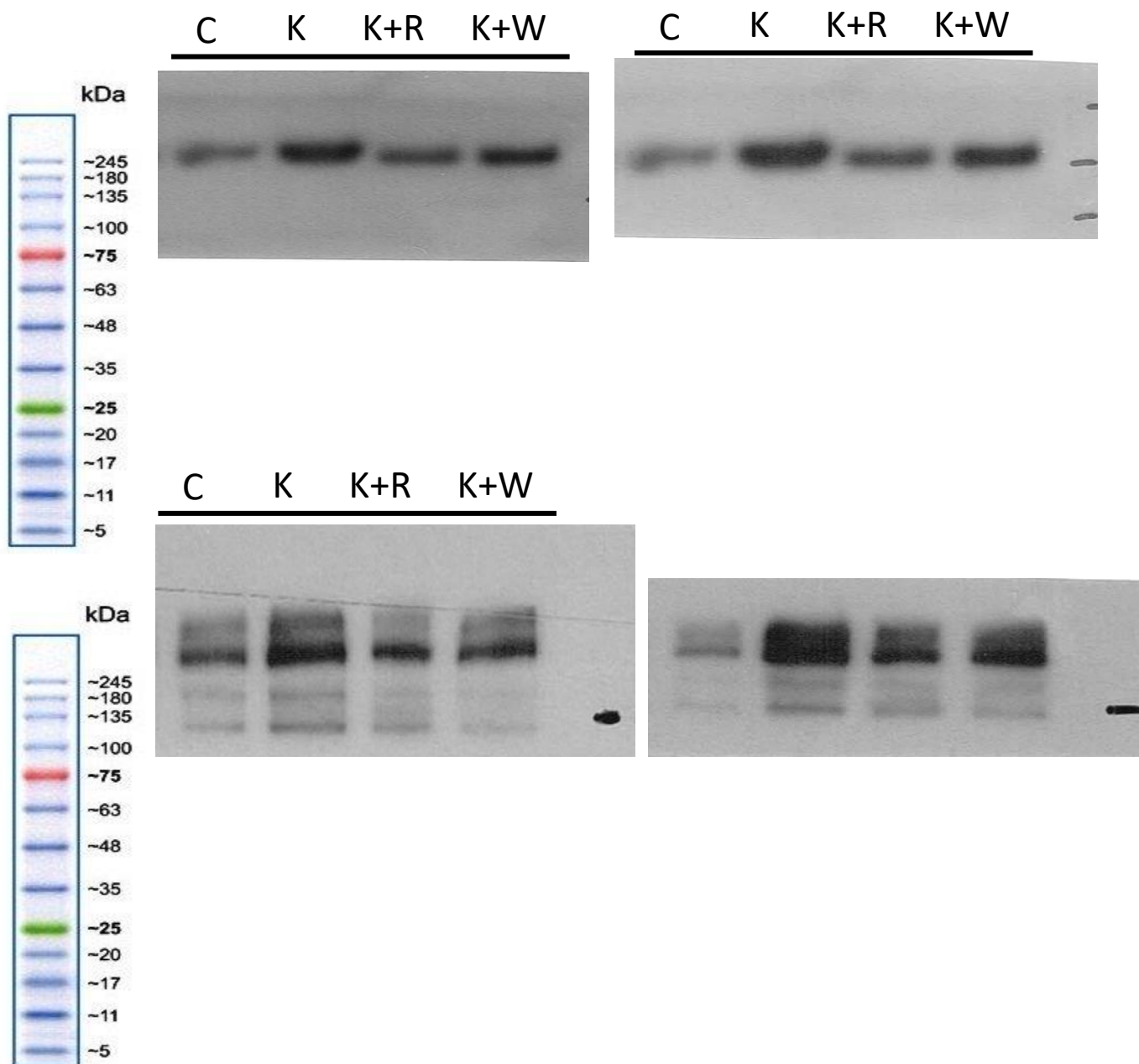
Molecular weight (kDa):289 kDa

Working concentration: 1:1000

Gel (%): 8%

Control (C) Ketamine (K) Ketamine+ Rapamycin (K+R)

Ketamine+ Wortmannin (K+W)



Western blot

Protein: p-mTOR

1^o Ab: Cell Signaling, rabbit monoclonal IgG

Catalog number: no.5536

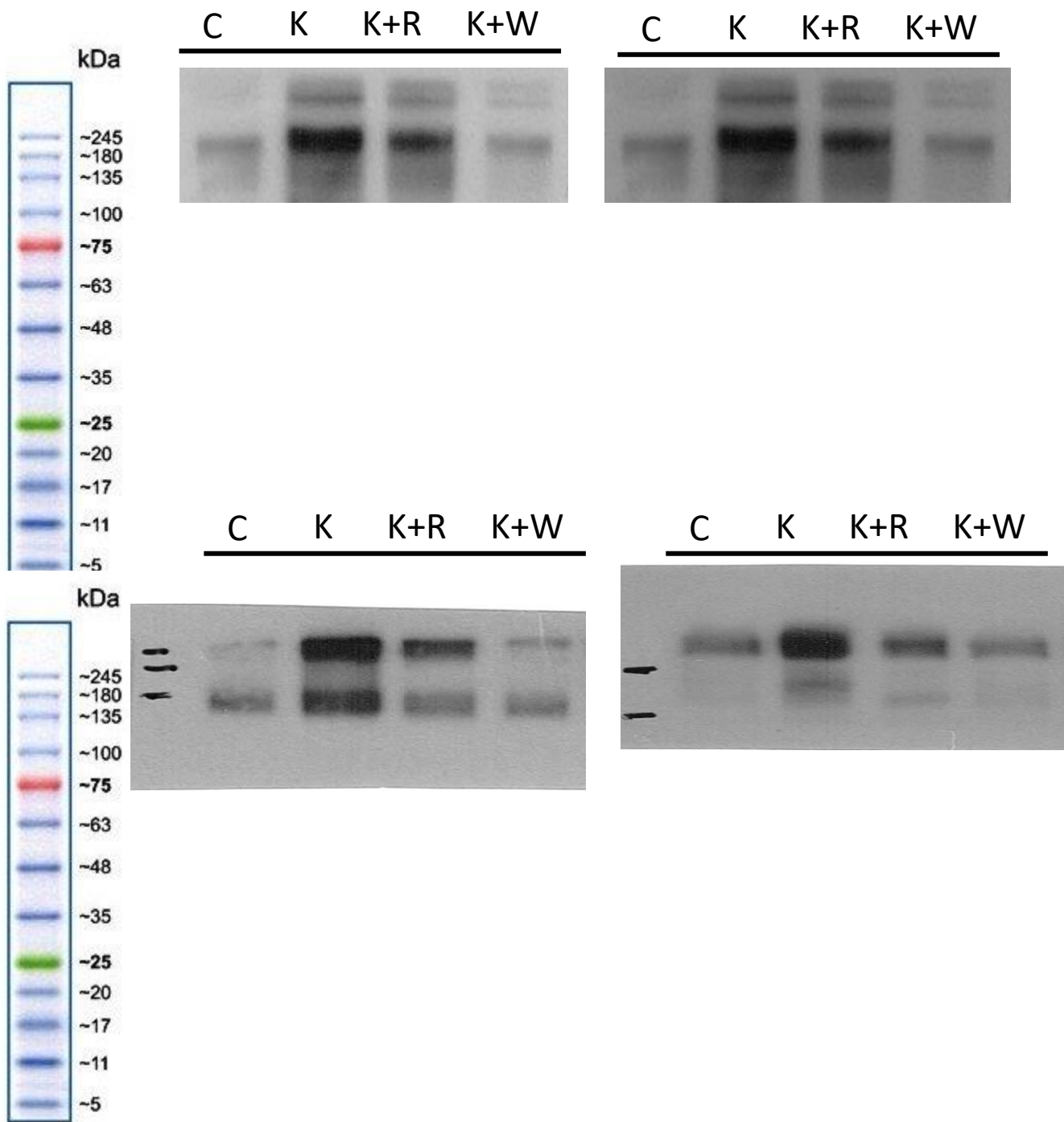
Molecular weight (kDa):289 kDa

Working concentration: 1:1000

Gel (%): 8%

Control (C) Ketamine (K) Ketamine+ Rapamycin (K+R)

Ketamine+ Wortmannin (K+W)



Western blot

Protein: Atg 12

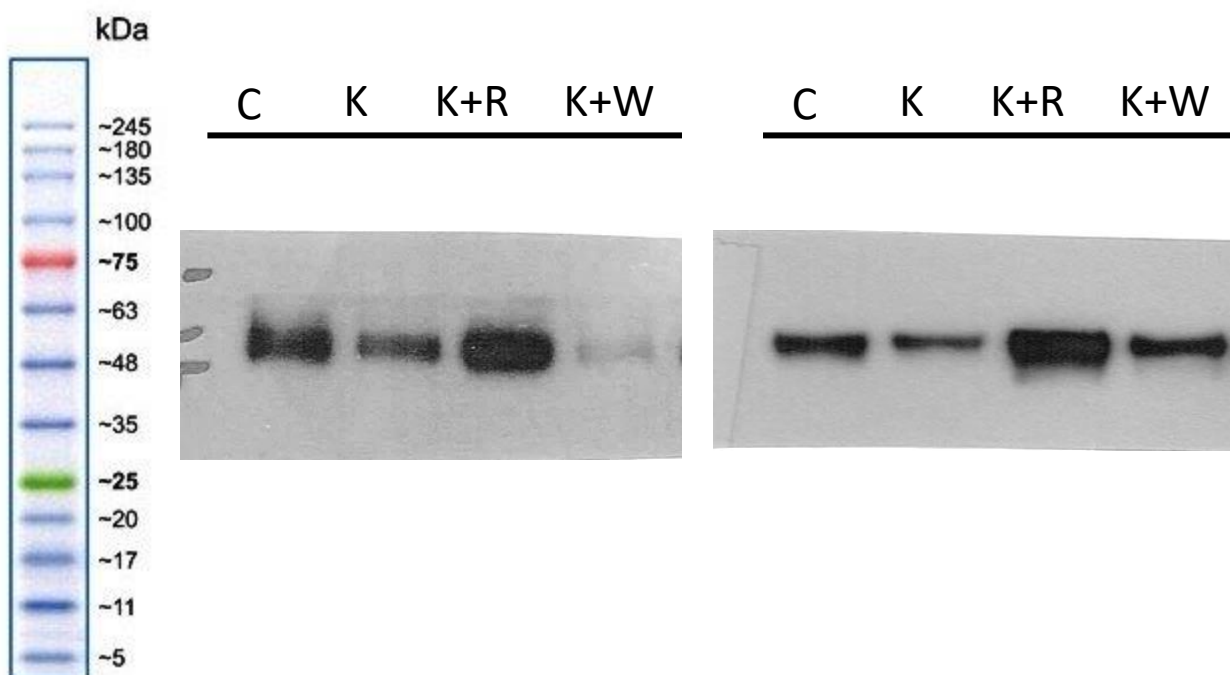
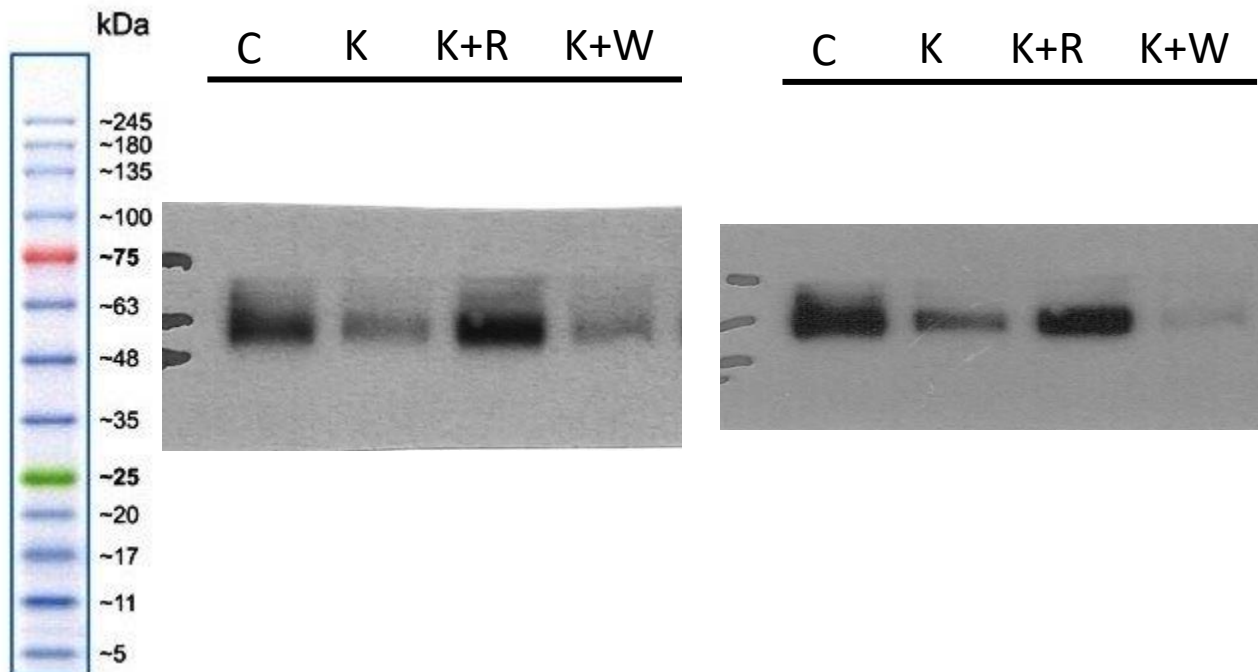
1^o Ab: Proteintech, rabbit polyclonal IgG

Catalog number: no.11264-1-AP Molecular weight (kDa):48-55 kDa

Working concentration: 1:1000 Gel (%): 8%

Control (C) Ketamine (K) Ketamine+ Rapamycin (K+R)

Ketamine+ Wortmannin (K+W)



Western blot

Protein: Atg 7

1^o Ab: Cell Signaling, rabbit monoclonal IgG

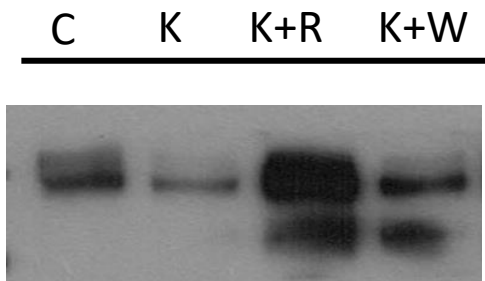
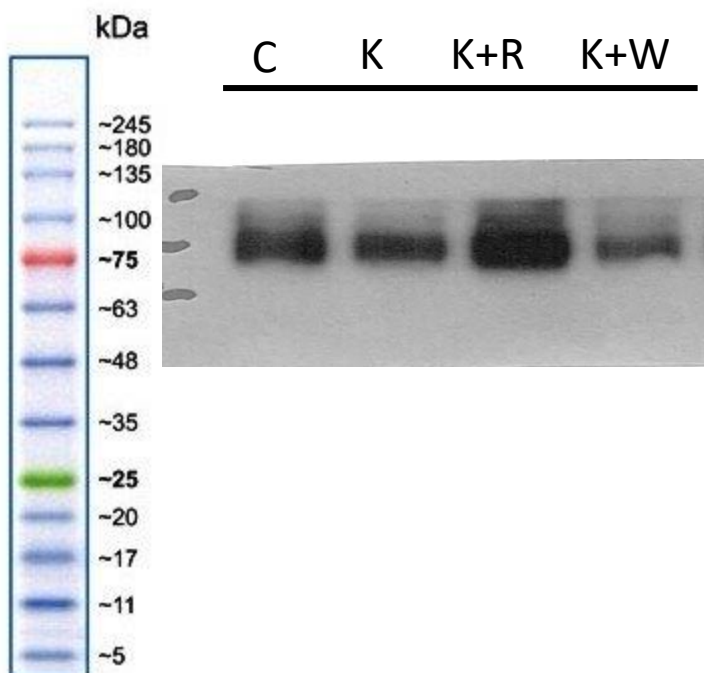
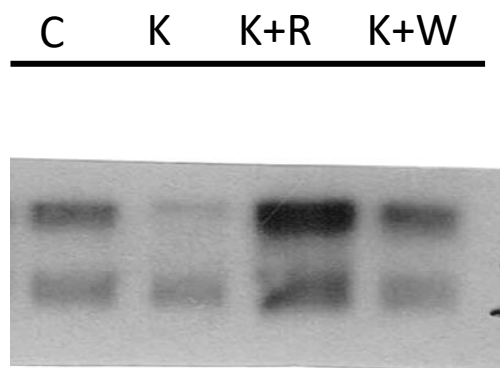
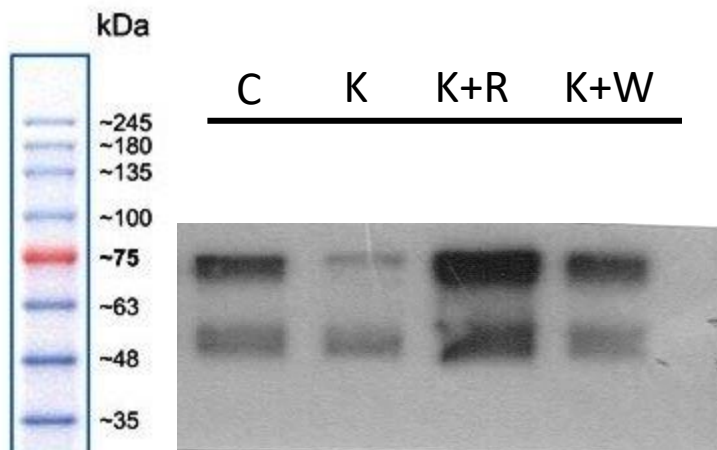
Catalog number: no.8558

Molecular weight (kDa):78 kDa

Working concentration: 1:1000 Gel (%): 8%

Control (C) Ketamine (K) Ketamine+ Rapamycin (K+R)

Ketamine+ Wortmannin (K+W)



Western blot

Protein: Beclin 1 (Atg 6)

1^o Ab: Novus, rabbit polyclonal IgG

Catalog number: no.NBP1-76648

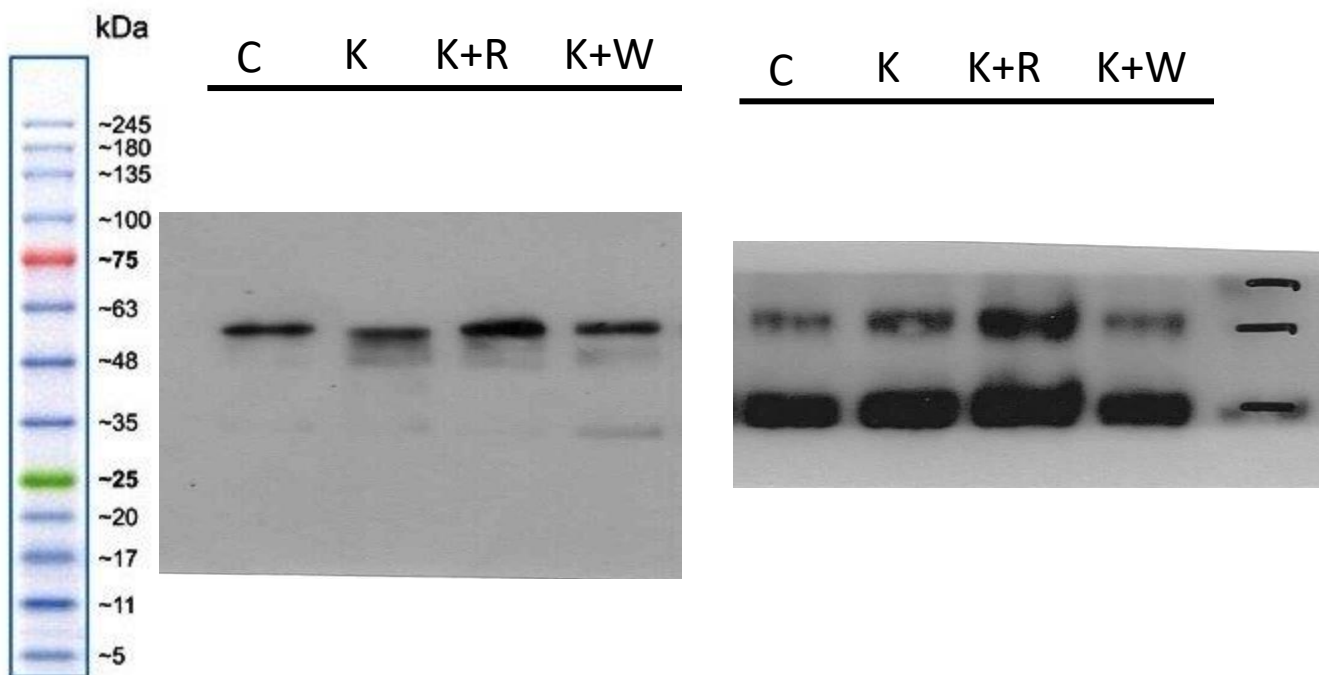
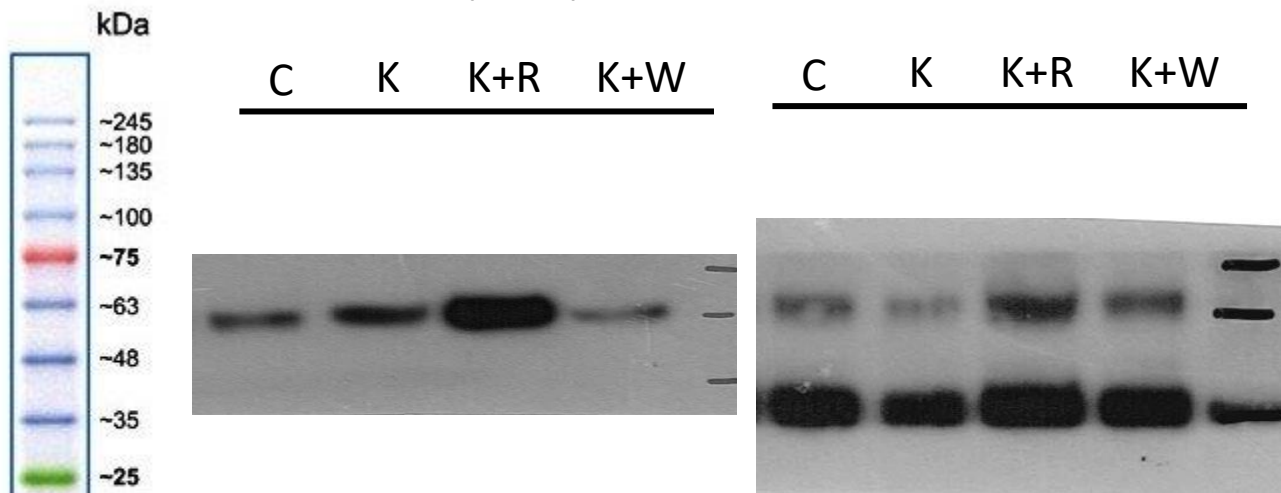
Molecular weight (kDa):52-55 kDa

Working concentration: 1:1000

Gel (%): 8%

Control (C) Ketamine (K) Ketamine+ Rapamycin (K+R)

Ketamine+ Wortmannin (K+W)



Western blot

Protein: LC3 (Atg 8)

1^o Ab: Cell Signaling, rabbit monoclonal IgG

Catalog number: no.4599

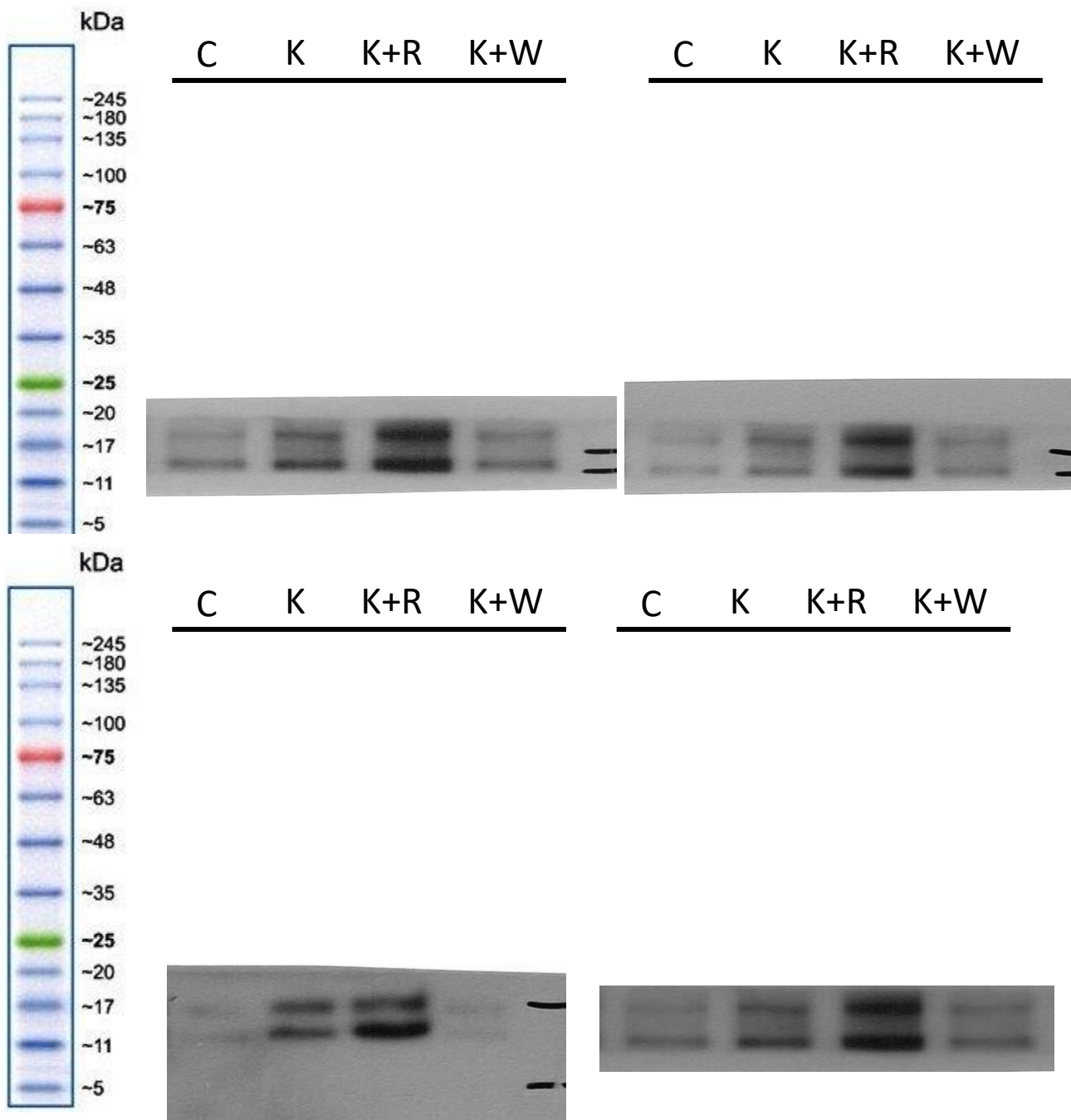
Molecular weight (kDa):14, 16 kDa

Working concentration: 1:1000

Gel (%): 8%

Control (C) Ketamine (K) Ketamine+ Rapamycin (K+R)

Ketamine+ Wortmannin (K+W)



Western blot

Protein: VPS 34

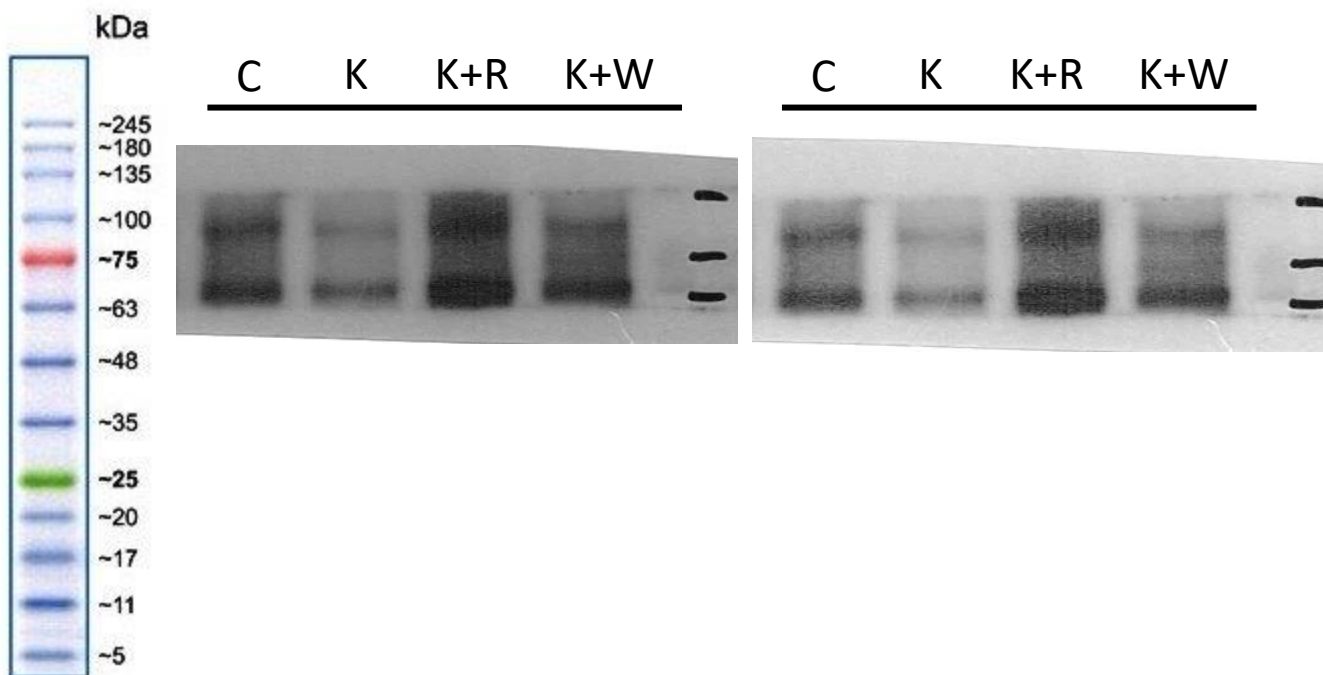
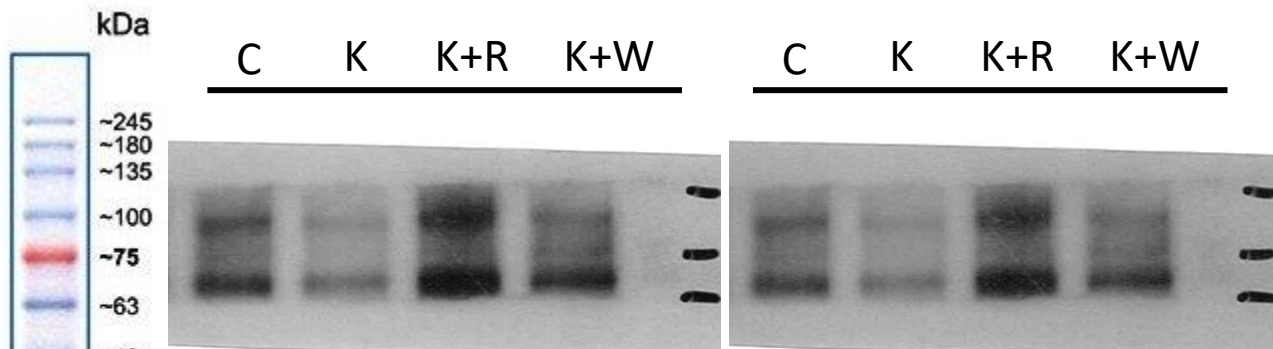
1^o Ab: Cell Signaling, rabbit polyclonal IgG

Catalog number: no. 12452-1-AP

Molecular weight (kDa):100 kDa

Working concentration: 1:1000

Gel (%): 8%



Western blot

Protein: β -Actin

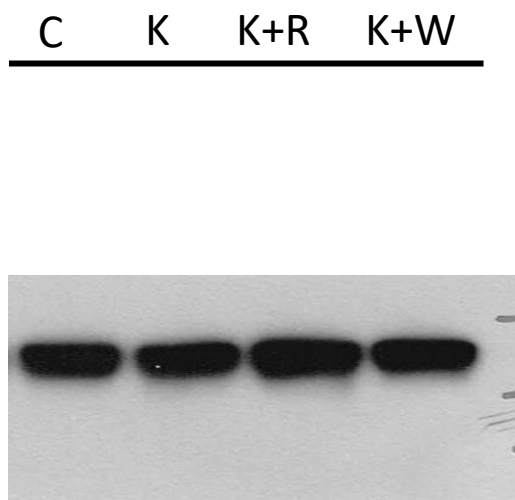
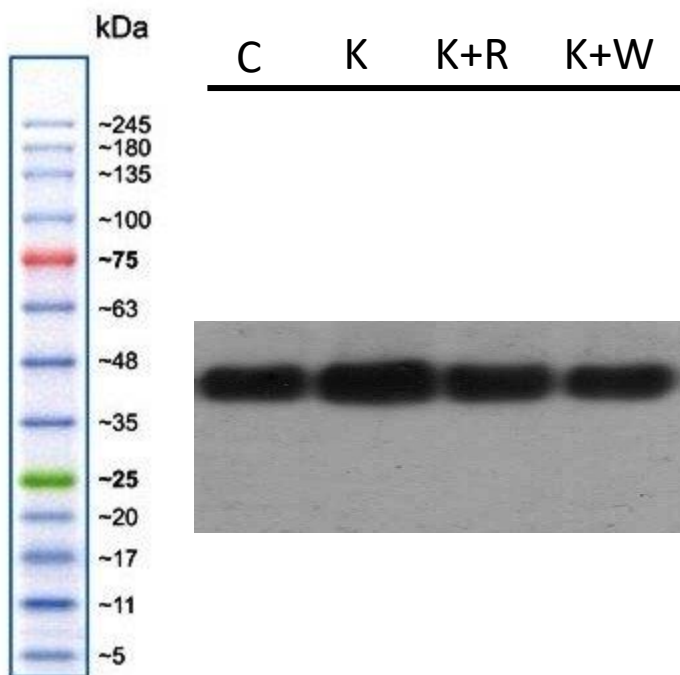
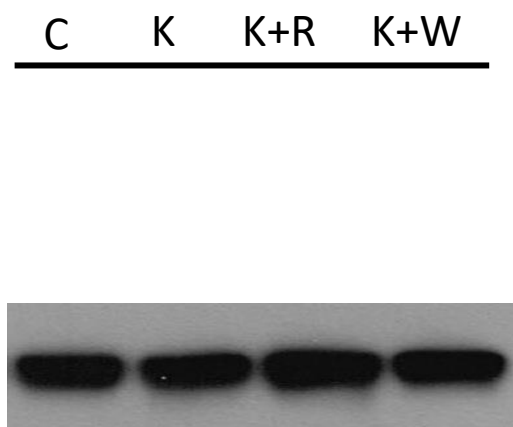
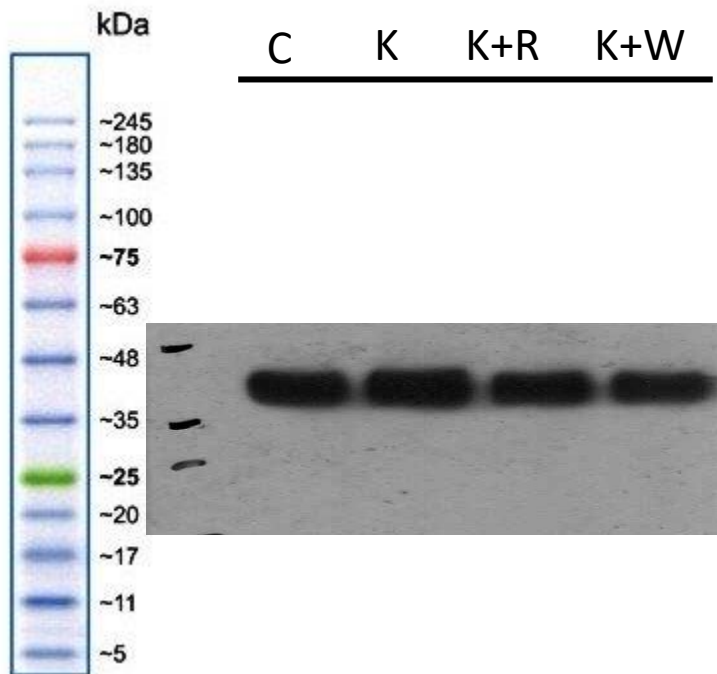
1^o Ab: Cell Signaling, rabbit monoclonal IgG

Catalog number: no.4970S

Molecular weight (kDa):43 kDa

Working concentration: 1:5000

Gel (%): 8%



Western blot

Protein: β -Actin

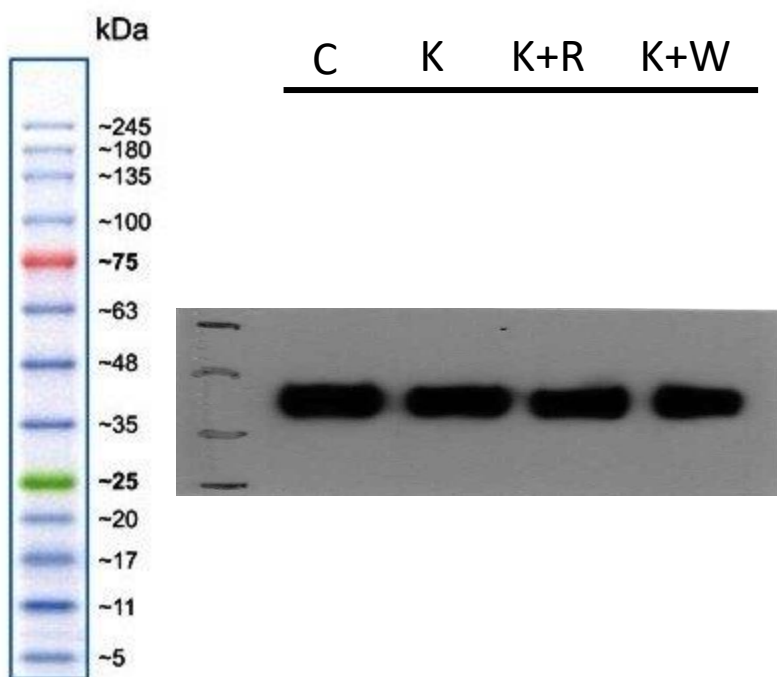
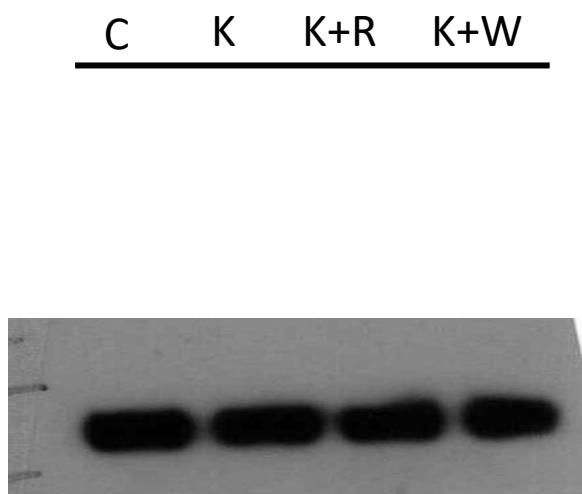
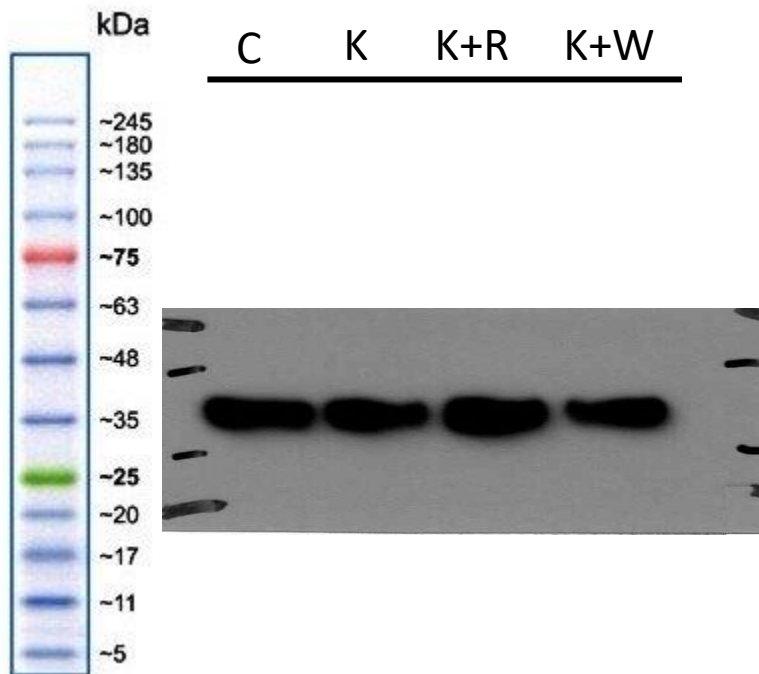
1^o Ab: Cell Signaling, rabbit monoclonal IgG

Catalog number: no.4970S

Molecular weight (kDa):43 kDa

Working concentration: 1:5000

Gel (%): 8%



Western blot

Protein: α -SMA

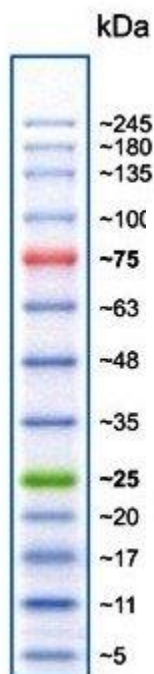
1^o Ab: Abcam, rabbit monoclonal IgG

Catalog number: no.ab5694

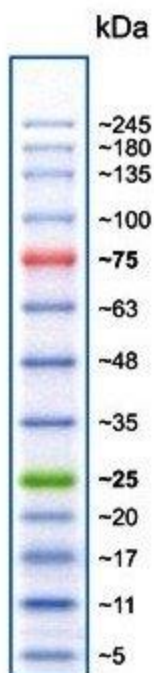
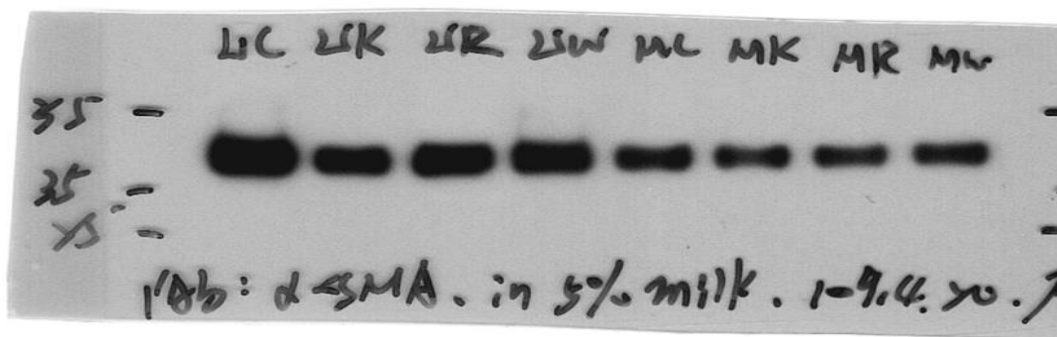
Molecular weight (kDa): 40 kDa

Working concentration: 1:5000

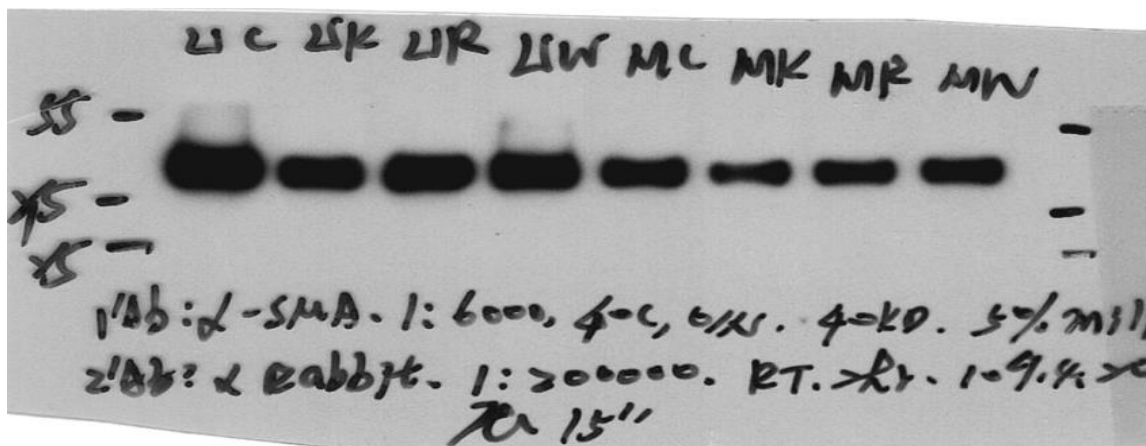
Gel (%): 8%



UL				ML			
C	K	K+R	K+W	C	K	K+R	K+W



UL				ML			
C	K	K+R	K+W	C	K	K+R	K+W



Western blot

Protein: α -SMA

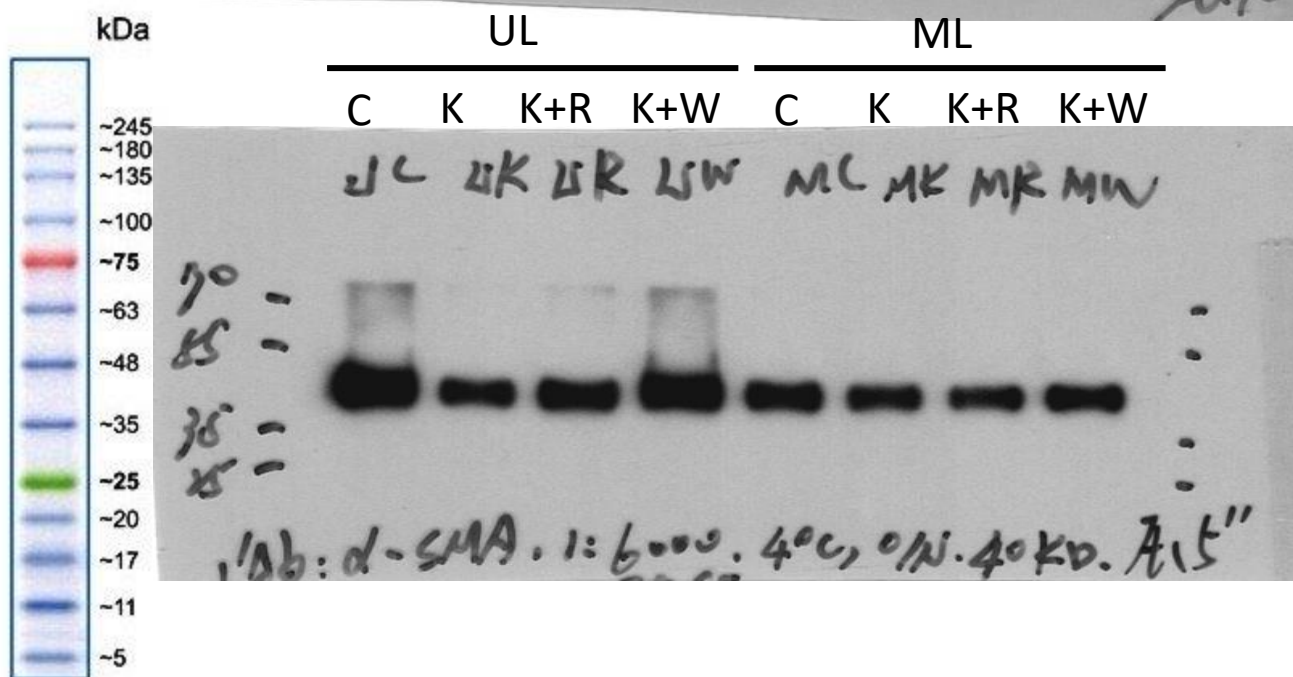
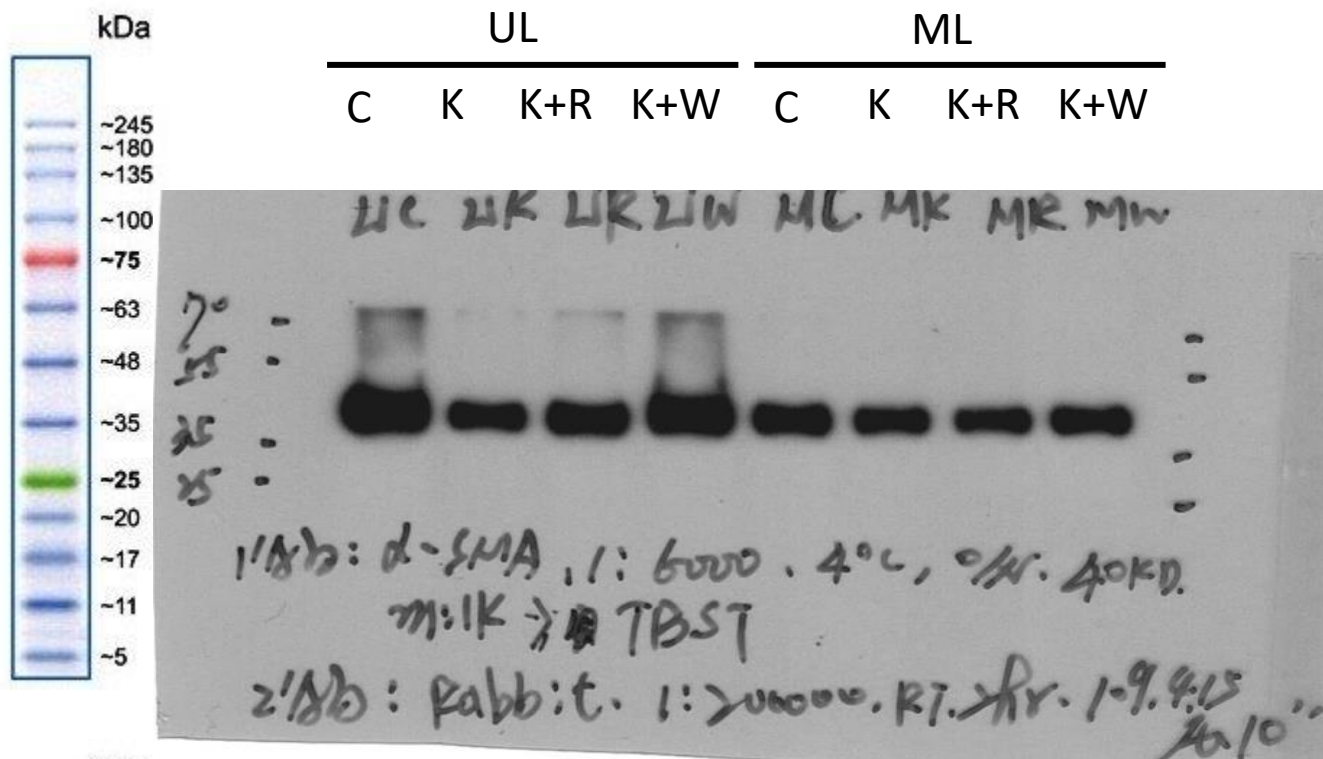
1^o Ab: Abcam, rabbit monoclonal IgG

Catalog number: no.ab5694

Molecular weight (kDa): 40 kDa

Working concentration: 1:5000

Gel (%): 8%



Western blot

Protein: α -SMA

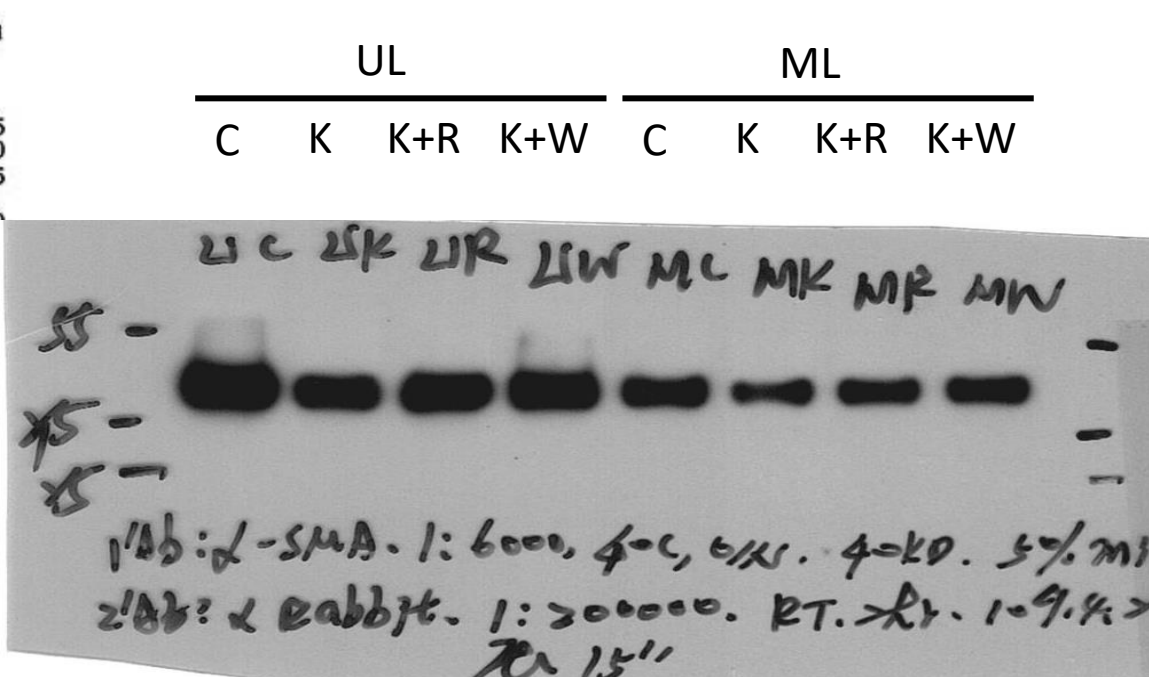
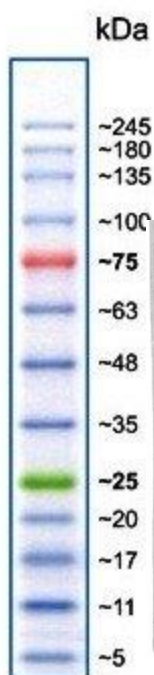
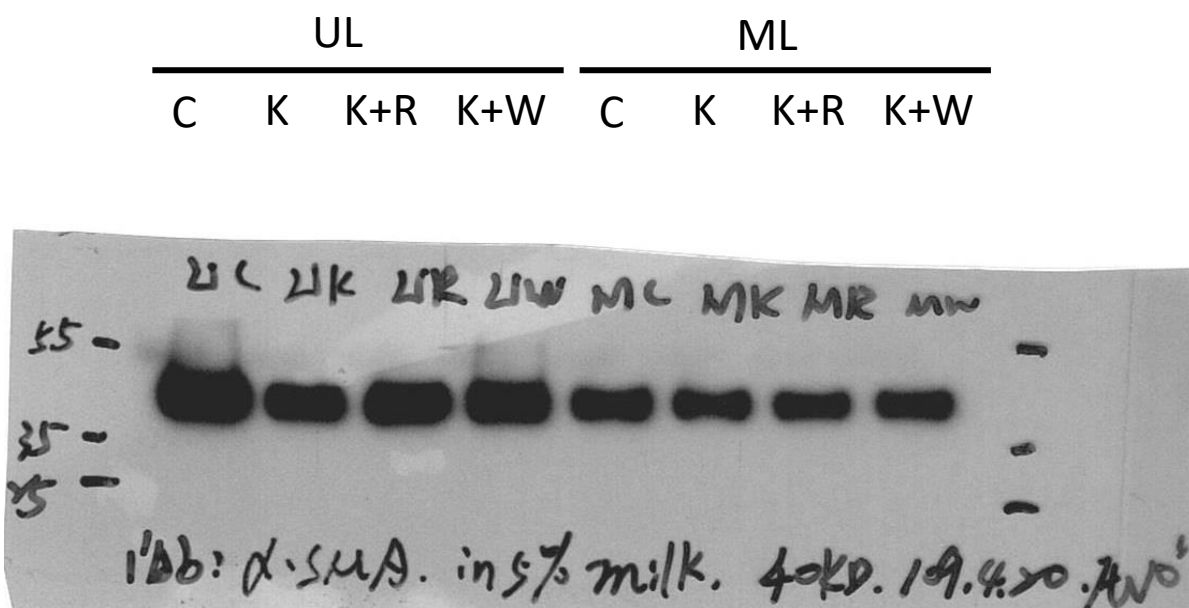
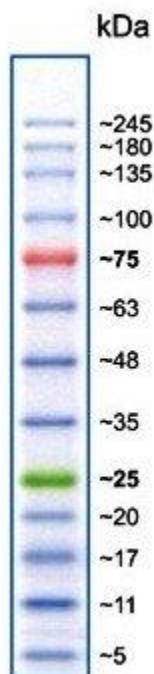
1^o Ab: Abcam, rabbit monoclonal IgG

Catalog number: no.ab5694

Molecular weight (kDa): 40 kDa

Working concentration: 1:5000

Gel (%): 8%



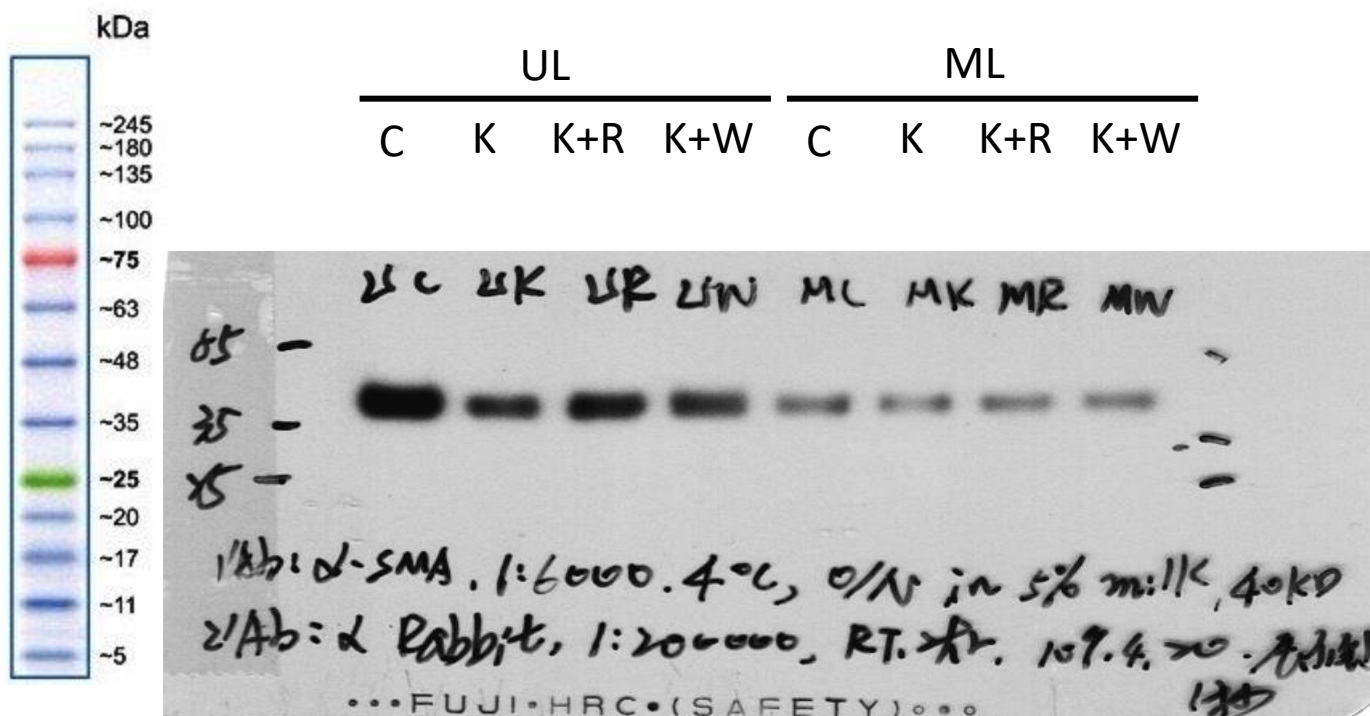
Protein: α -SMA

Catalog number: no.ab5694

Molecular weight (kDa):40 kDa

Working concentration: 1:5000

Gel (%): 8%



Western blot

Protein: CD31

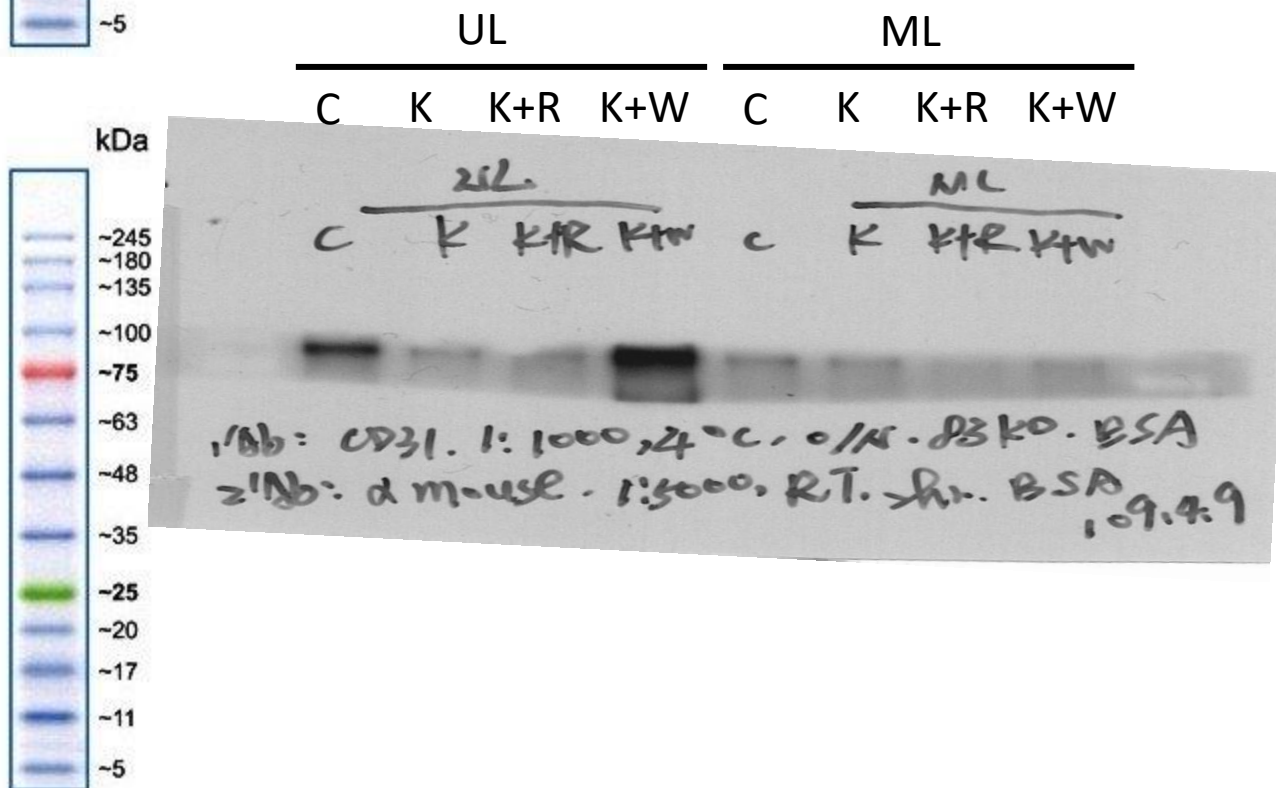
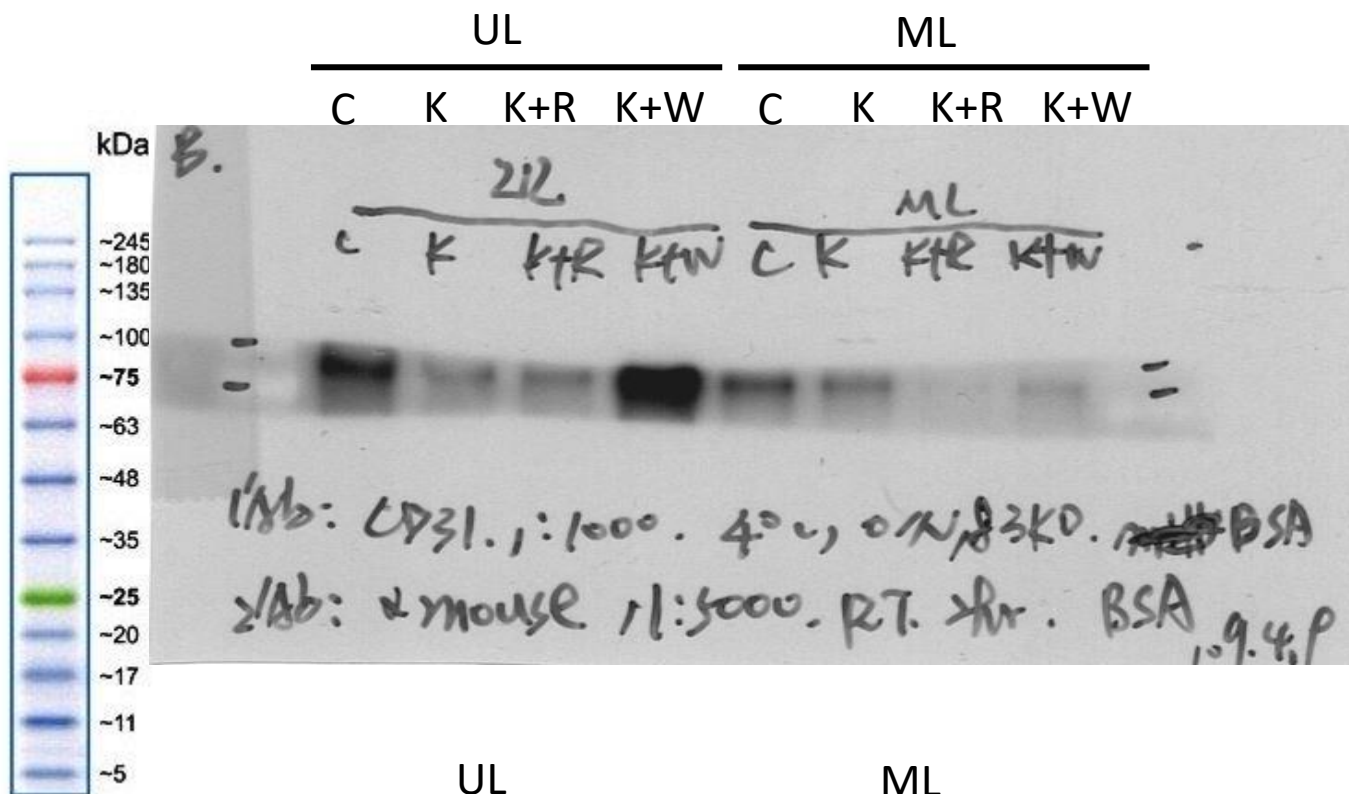
1^o Ab: Abcam, mouse monoclonal IgG

Catalog number: no.9498

Molecular weight (kDa):83 kDa

Working concentration: 1:3000

Gel (%): 8%



Western blot

Protein: CD31

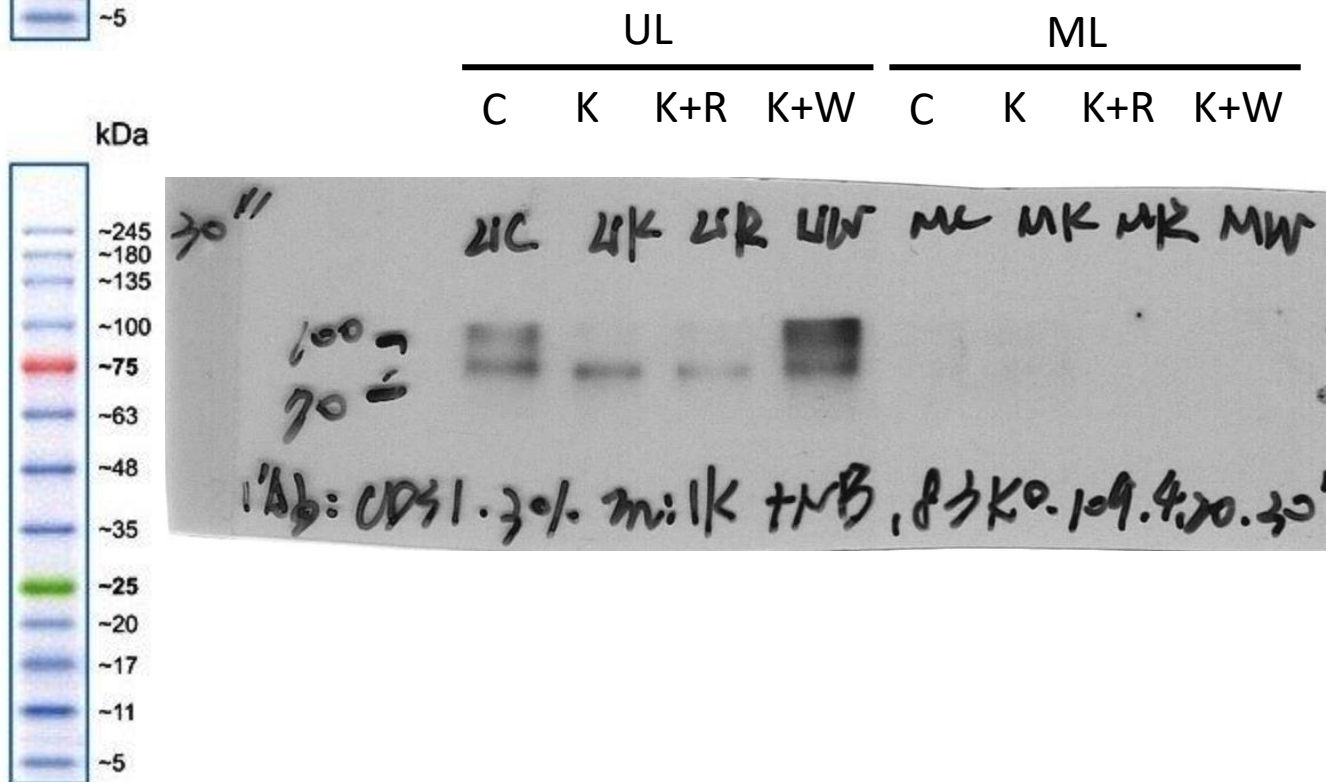
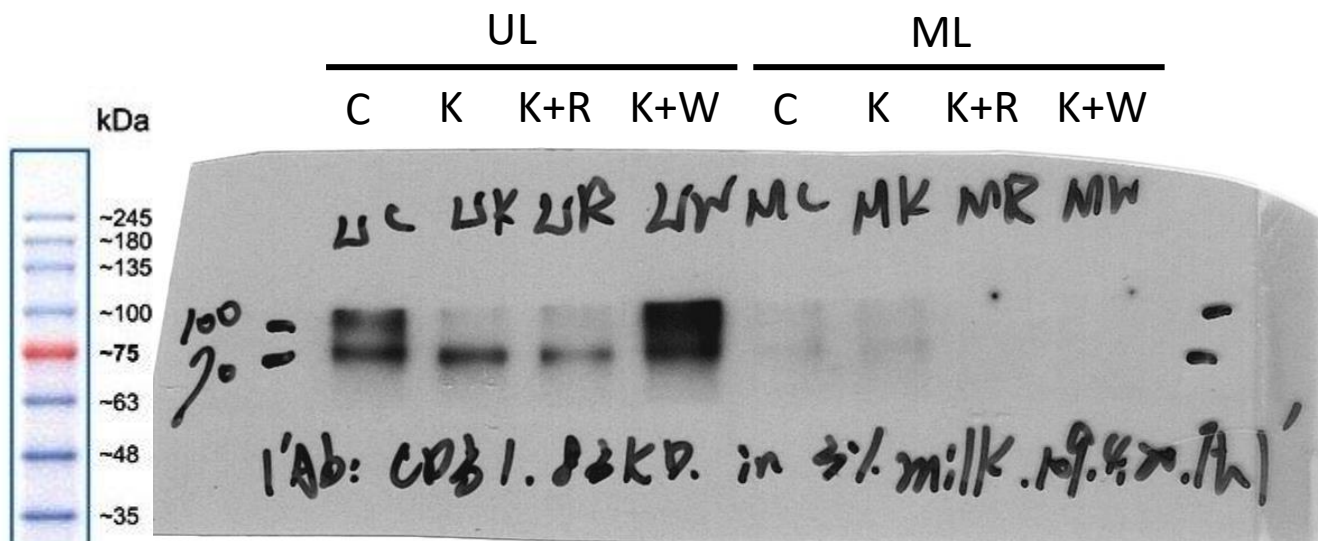
1^o Ab: Abcam, mouse monoclonal IgG

Catalog number: no.9498

Molecular weight (kDa):83 kDa

Working concentration: 1:3000

Gel (%): 8%



Western blot

Protein: VEGF

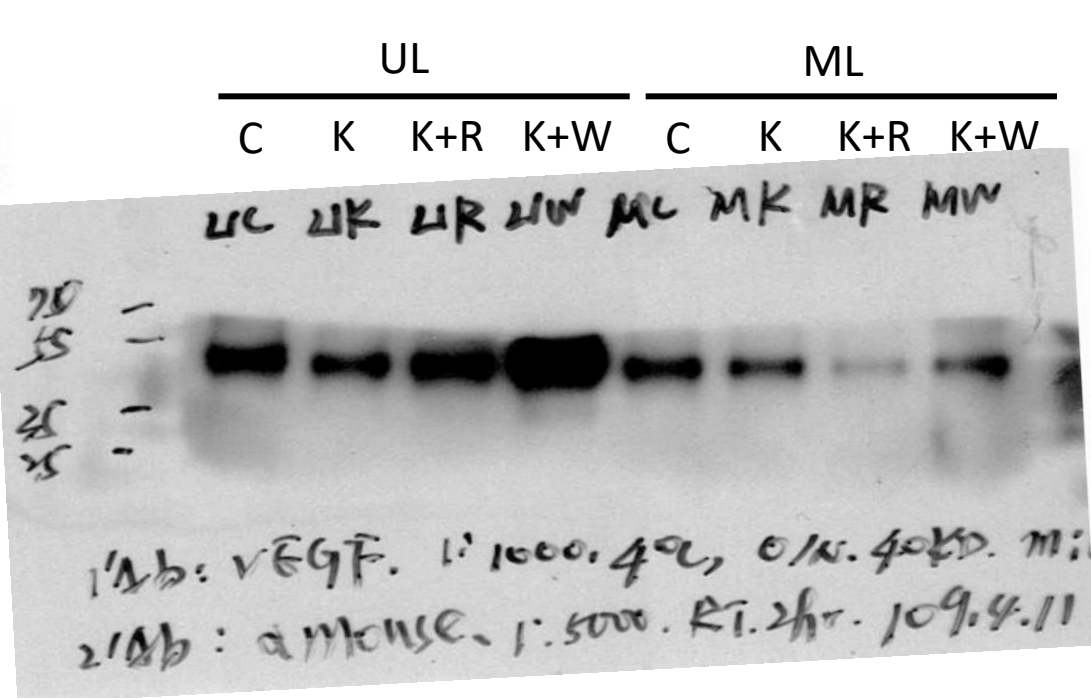
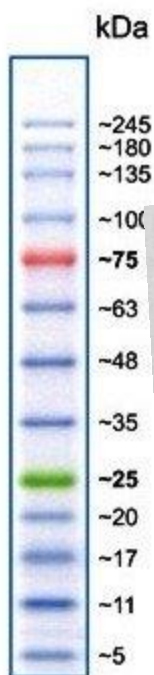
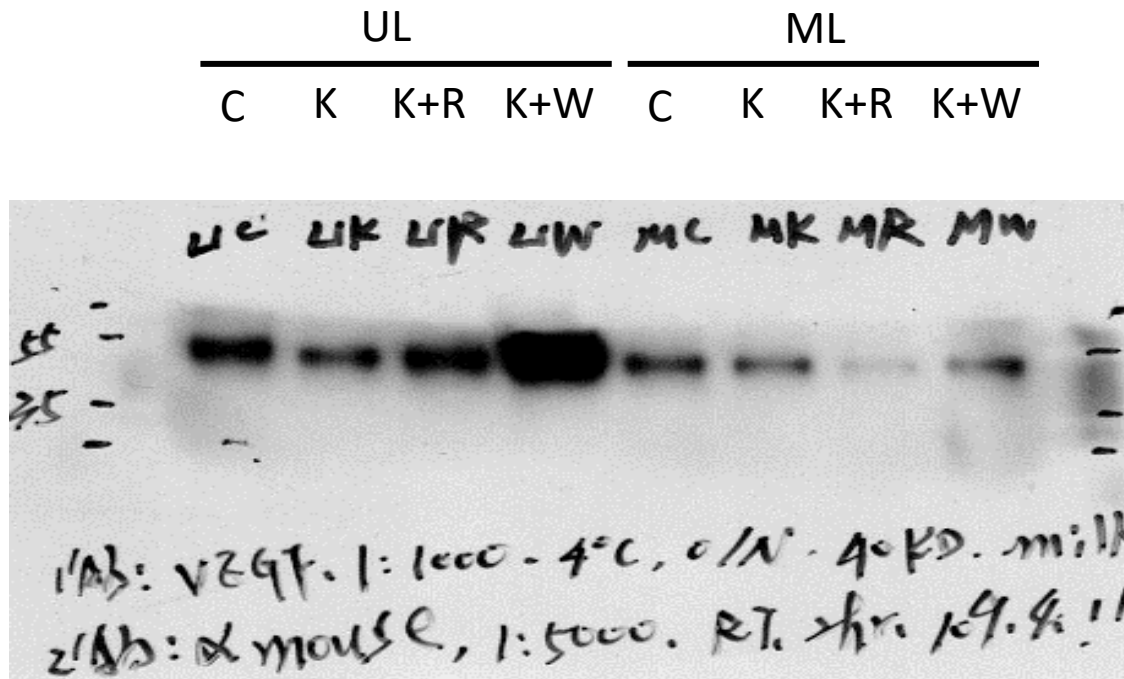
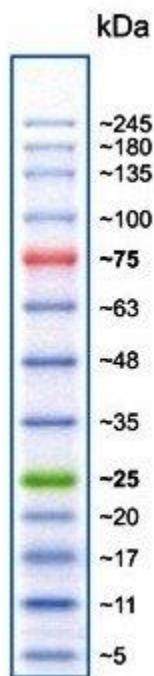
1^o Ab: Millipore, mouse monoclonal IgG

Catalog number: no.05443

Molecular weight (kDa):40 kDa

Working concentration: 1:2000

Gel (%): 8%



Western blot

Protein: VEGF

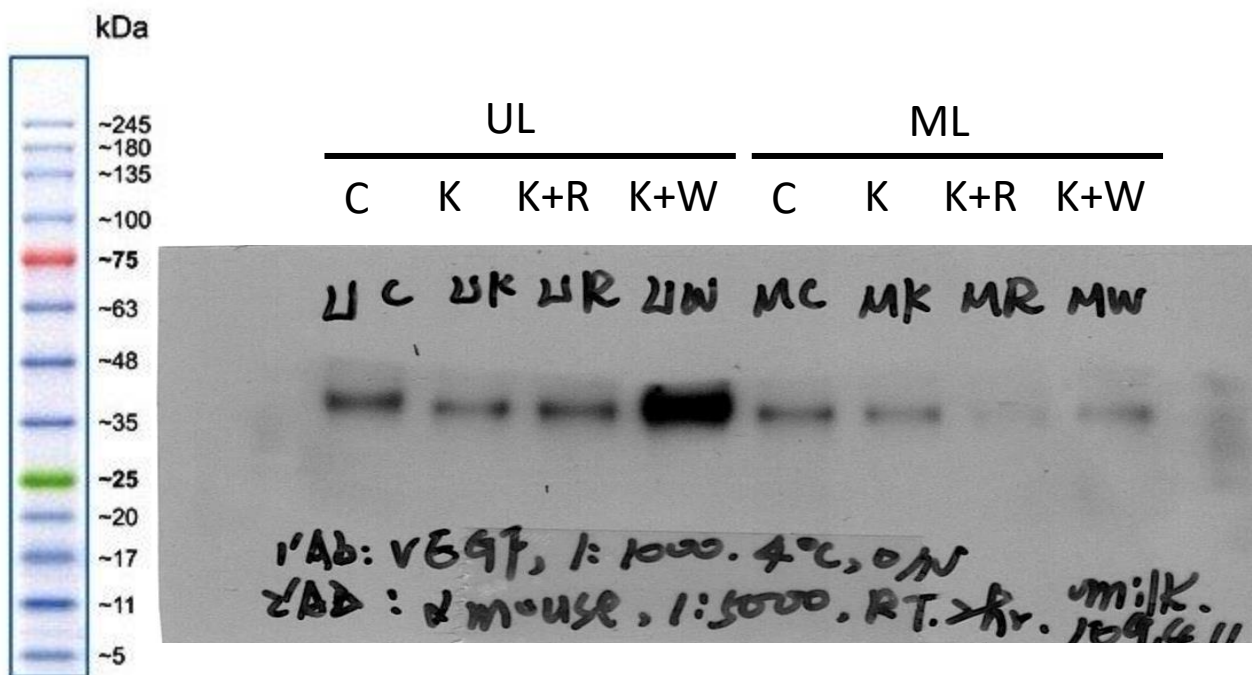
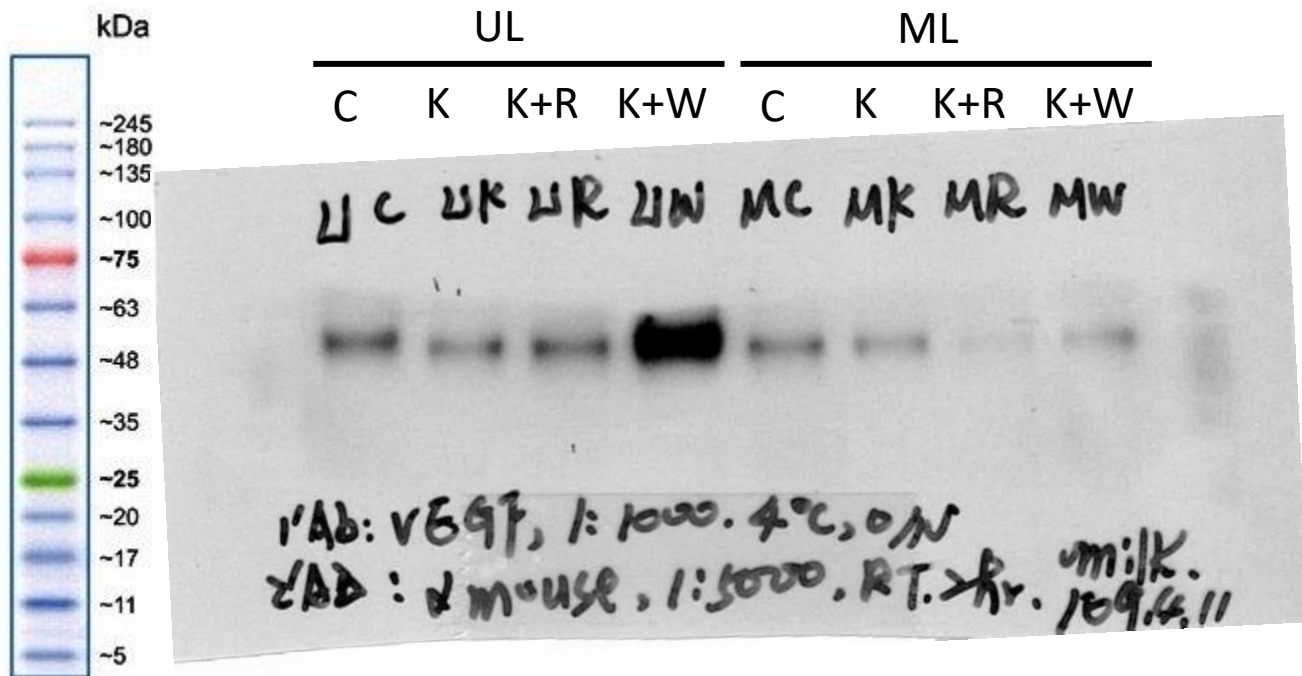
1^o Ab: Millipore, mouse monoclonal IgG

Catalog number: no.05443

Molecular weight (kDa):40 kDa

Working concentration: 1:2000

Gel (%): 8%



Western blot

Protein: VEGF-R1

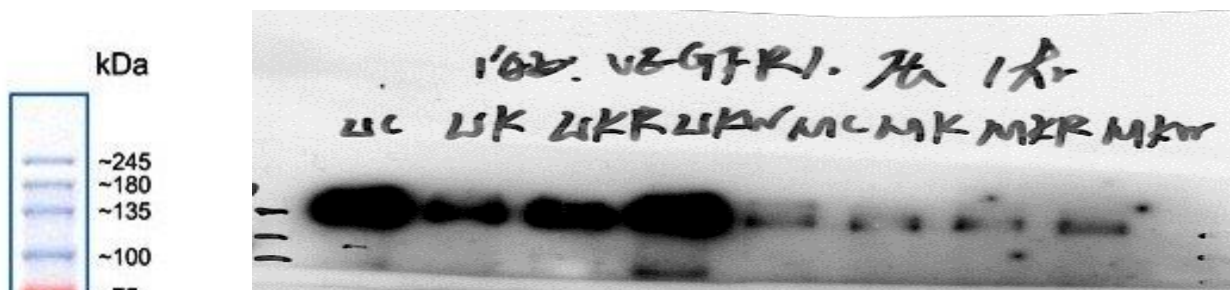
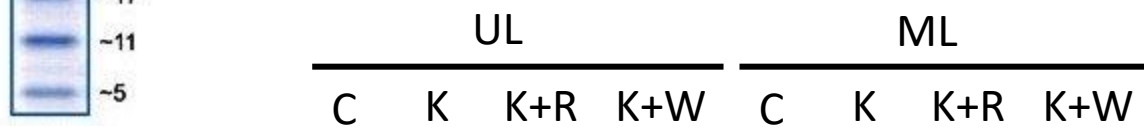
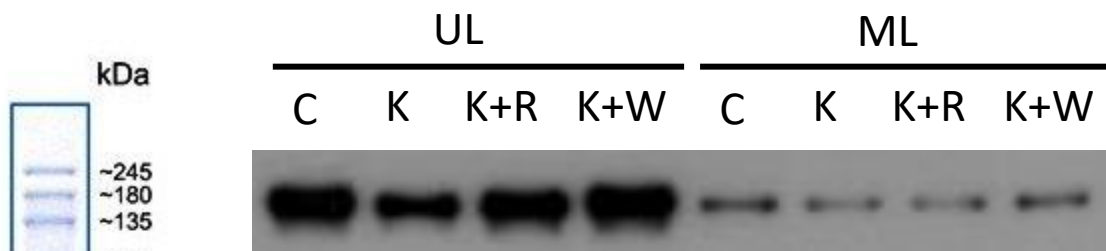
1^o Ab: Abcam, rabbit monoclonal IgG

Catalog number: no.ab32152

Molecular weight (kDa):150 kDa

Working concentration: 1:1000

Gel (%): 8%



Western blot

Protein: VEGF-R1

1^o Ab: Abcam, rabbit monoclonal IgG

Catalog number: no.ab32152

Molecular weight (kDa):150 kDa

Working concentration: 1:1000

Gel (%): 8%

UL

ML

C

K

K+R

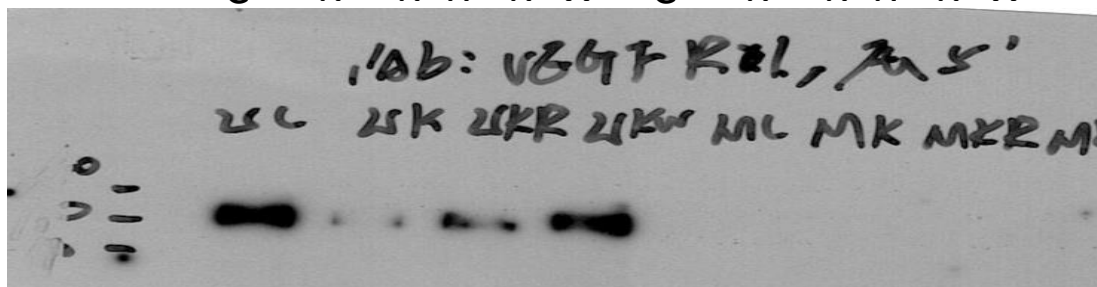
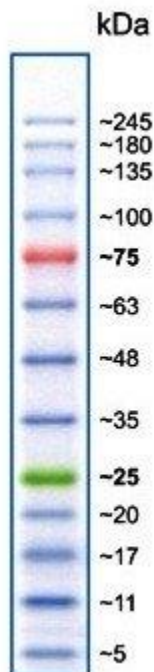
K+W

C

K

K+R

K+W



UL

ML

C

K

K+R

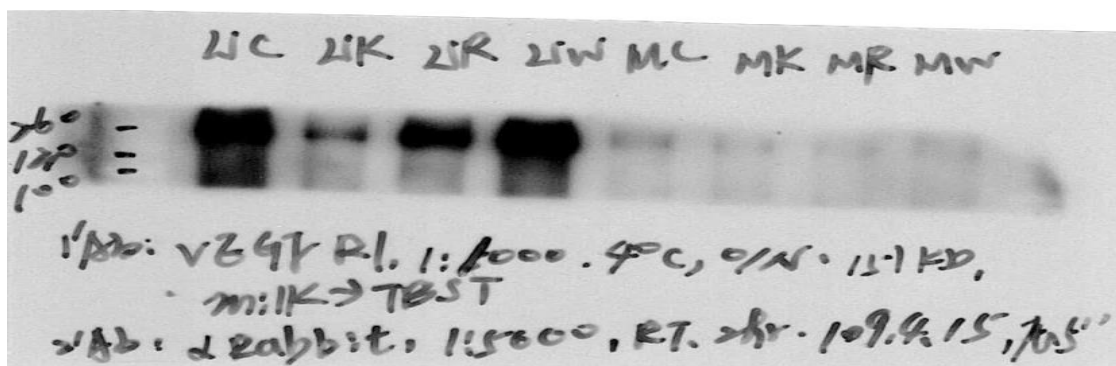
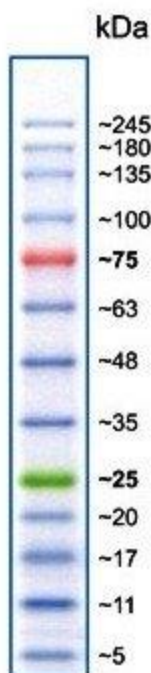
K+W

C

K

K+R

K+W



Western blot

Protein: VEGF-R2

1^o Ab: Cell Signaling, rabbit monoclonal IgG

Catalog number: no.#9698

Molecular weight (kDa):220 kDa

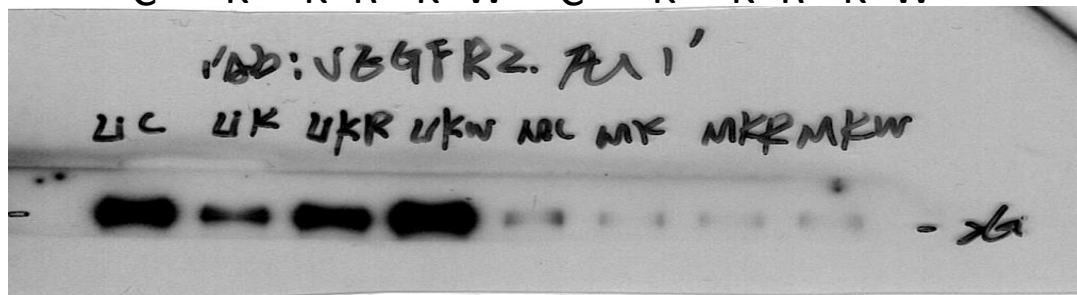
Working concentration: 1:1000

Gel (%): 8%

UL

ML

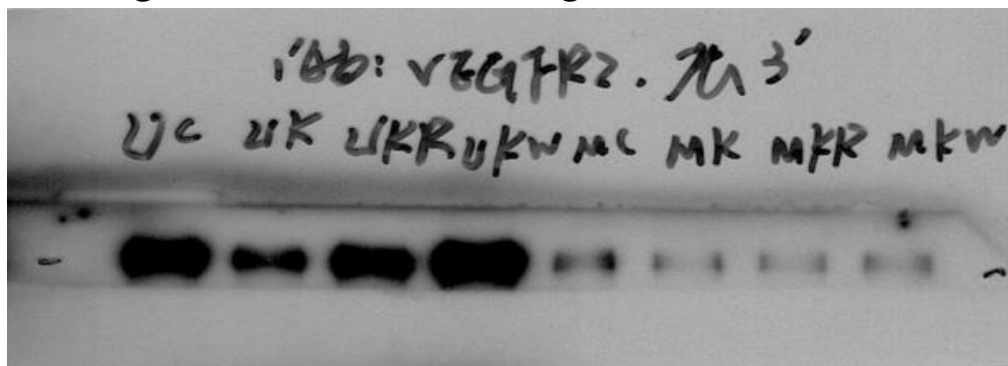
C K K+R K+W C K K+R K+W



UL

ML

C K K+R K+W C K K+R K+W



Western blot

Protein: VEGF-R2

1^o Ab: Cell Signaling, rabbit monoclonal IgG

Catalog number: no.#9698

Molecular weight (kDa):220 kDa

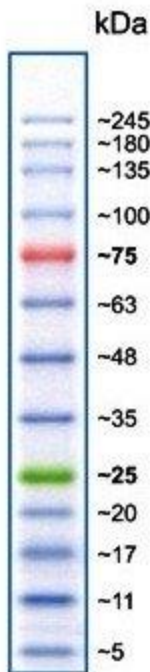
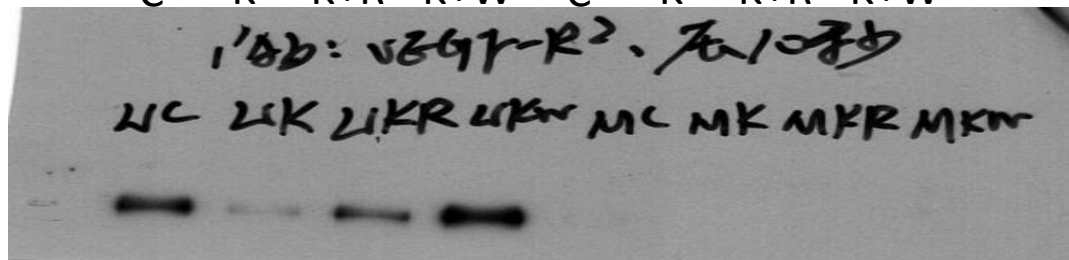
Working concentration: 1:1000

Gel (%): 8%

UL

ML

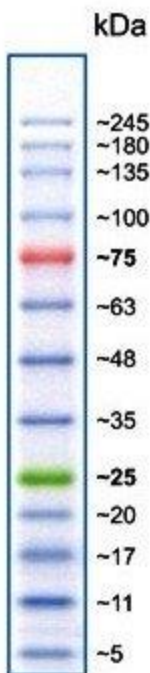
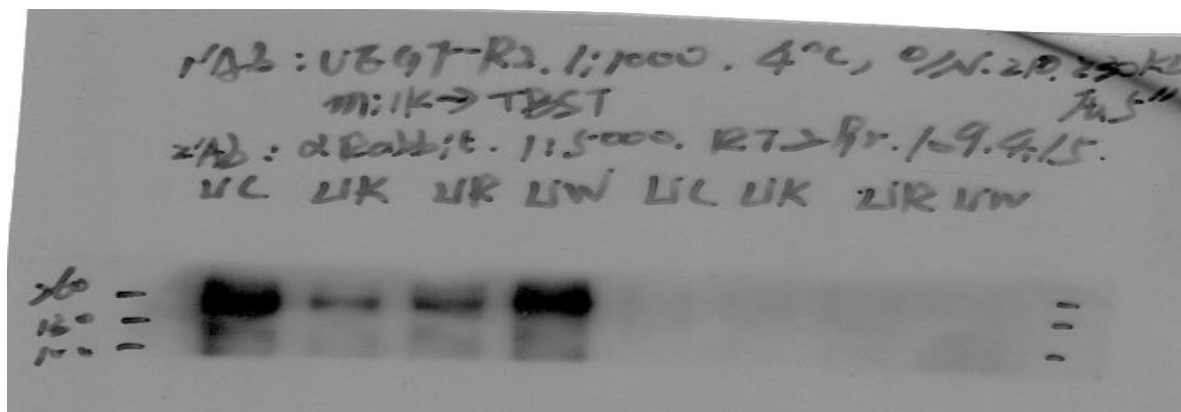
C K K+R K+W C K K+R K+W



UL

ML

C K K+R K+W C K K+R K+W



Western blot

Protein: Laminin

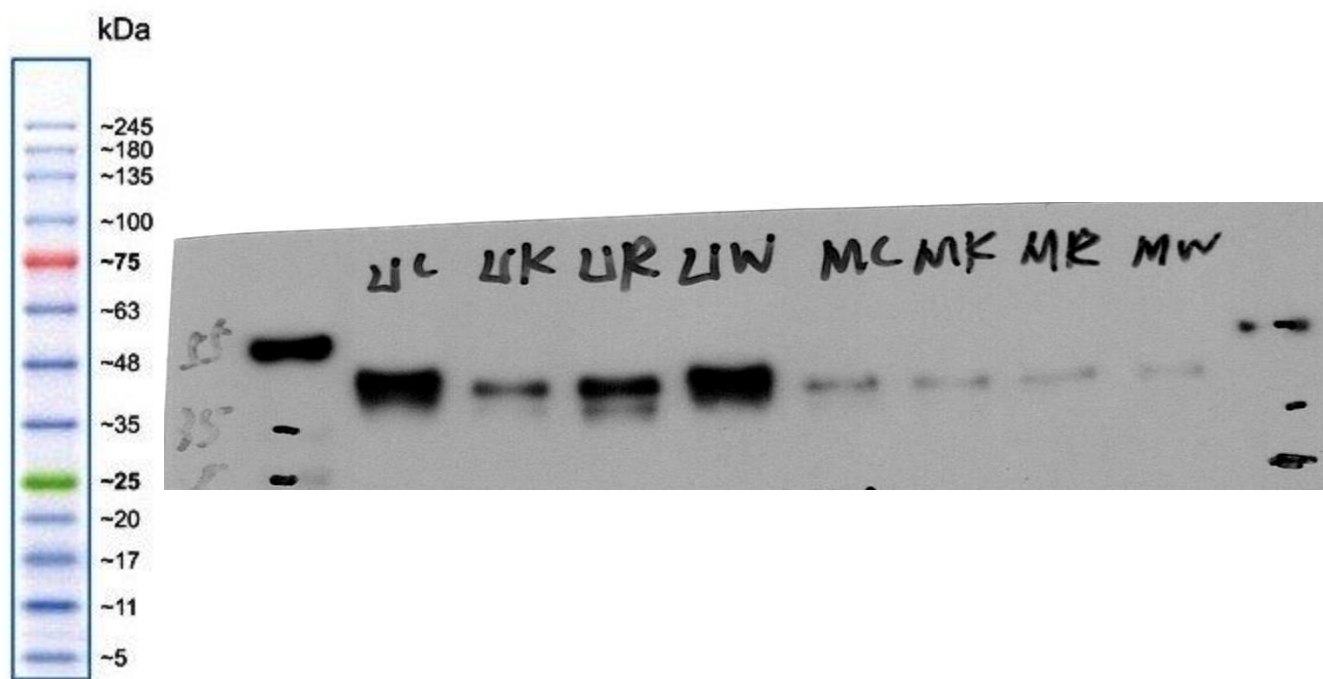
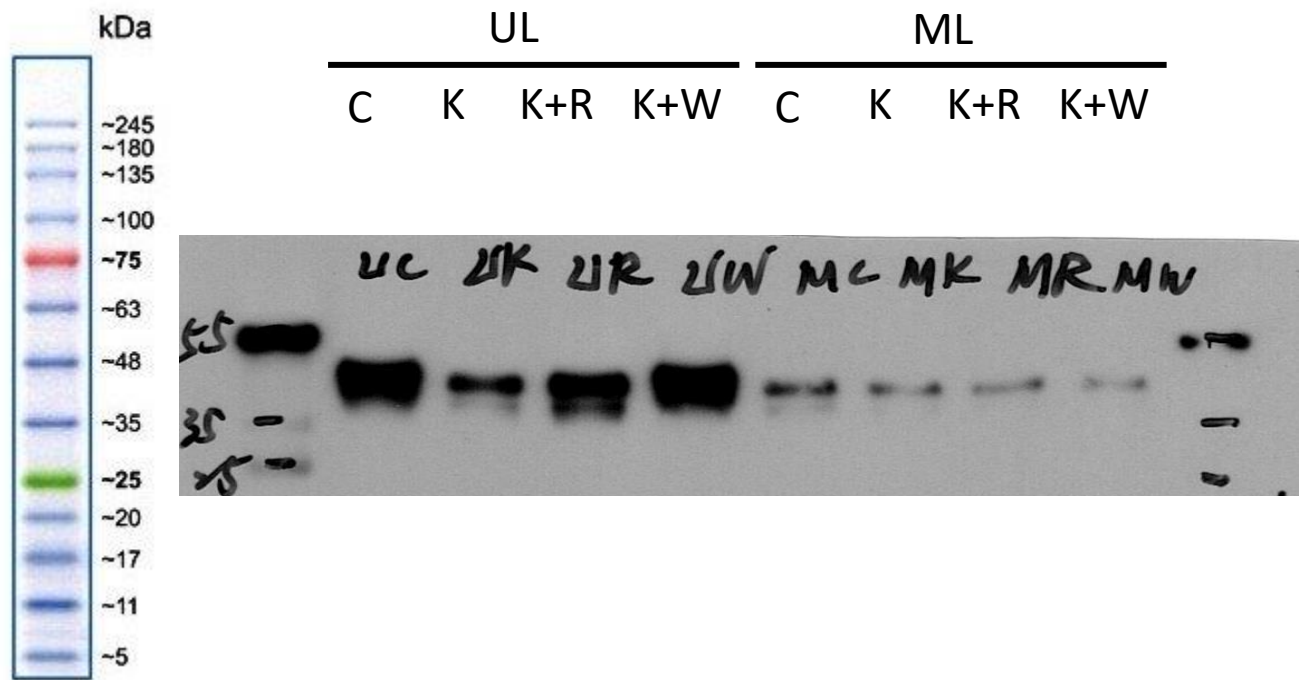
1^o Ab: Abcam, rabbit monoclonal IgG

Catalog number: no.ab11575

Molecular weight (kDa): 200~400 kDa

Working concentration: 1:1000

Gel (%): 8%



Western blot

Protein: Laminin

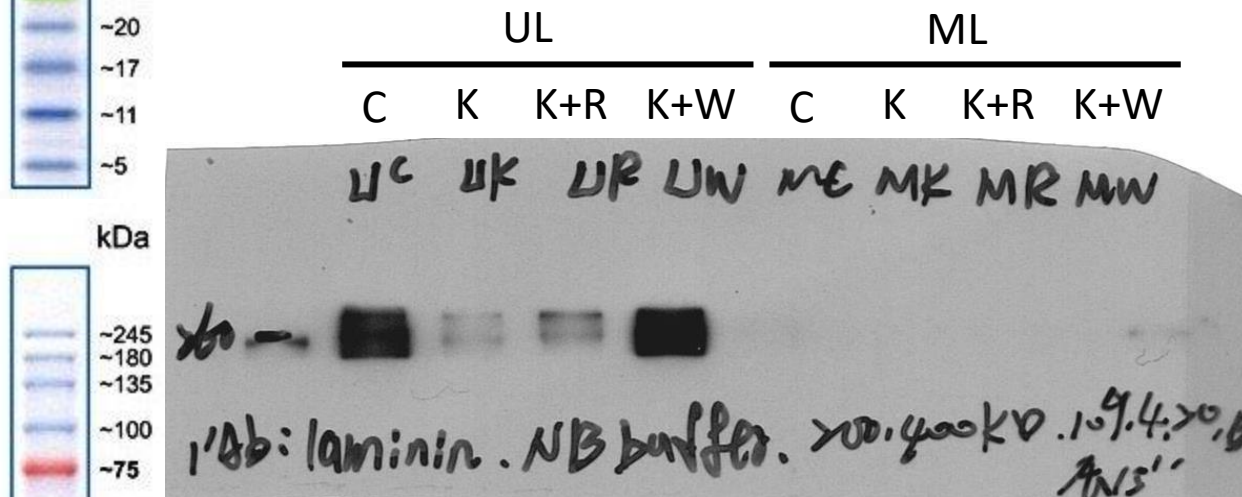
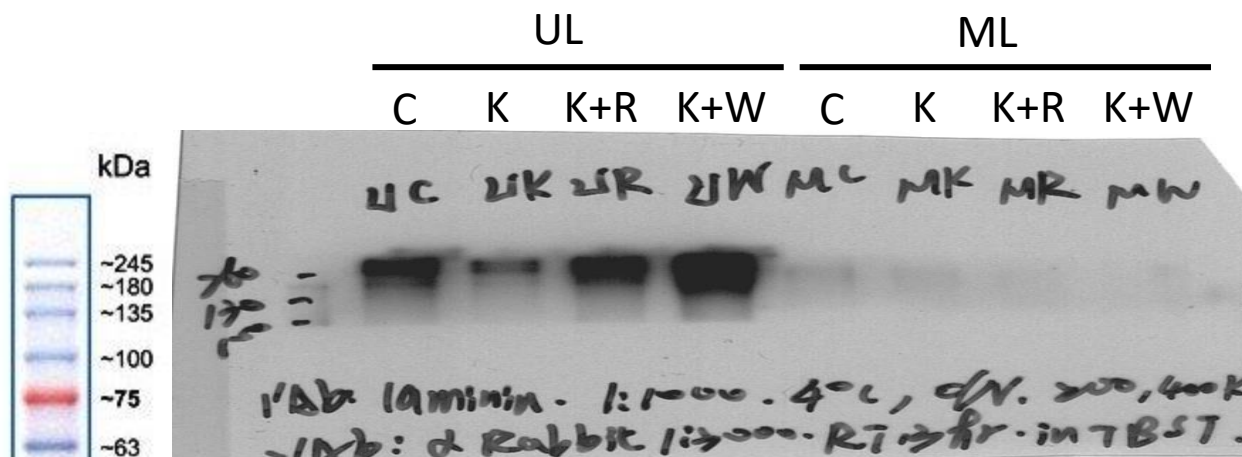
1^o Ab: Abcam, rabbit monoclonal IgG

Catalog number: no.ab11575

Molecular weight (kDa): 200~400 kDa

Working concentration: 1:1000

Gel (%): 8%



Western blot

Protein: Laminin

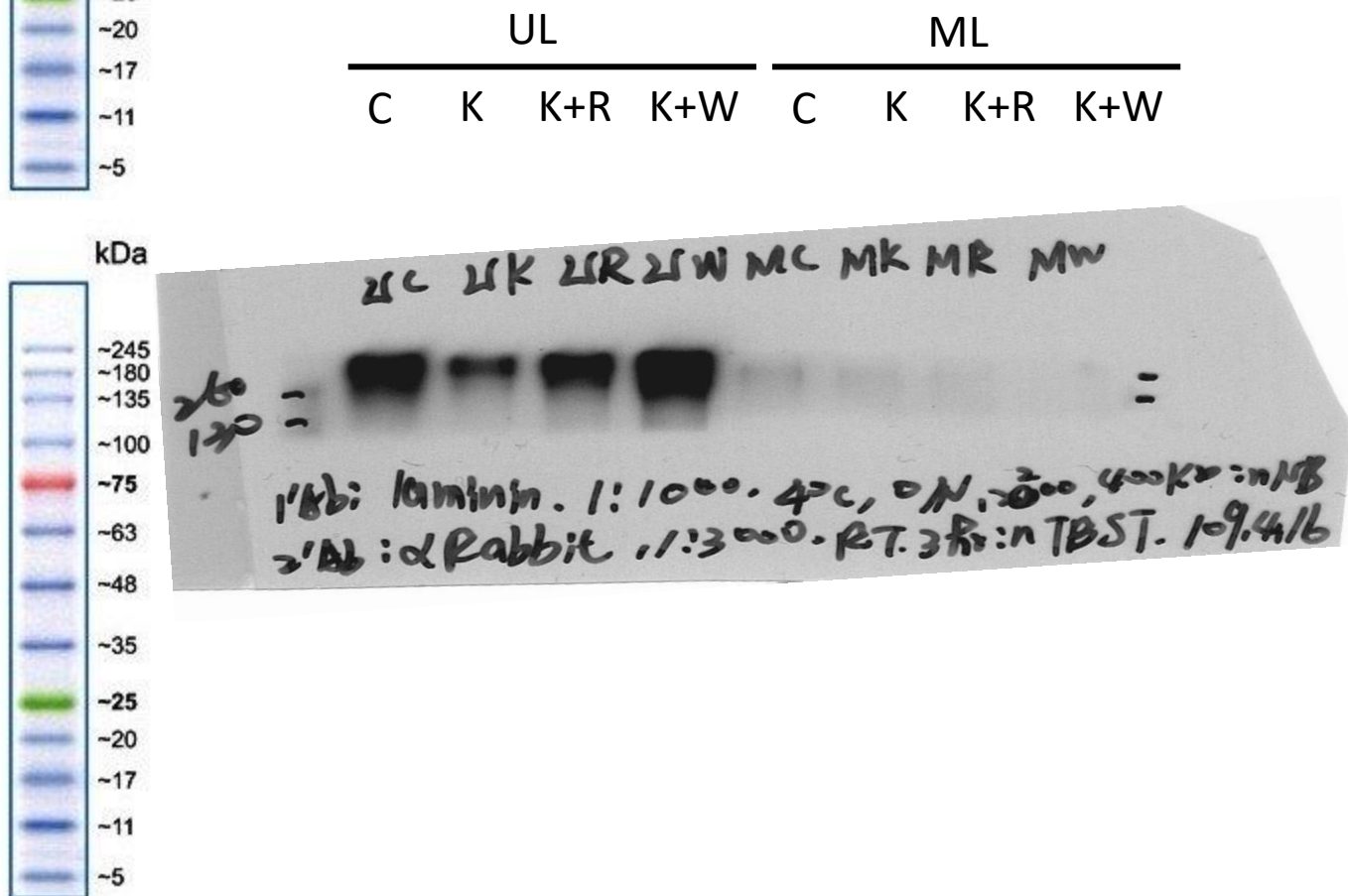
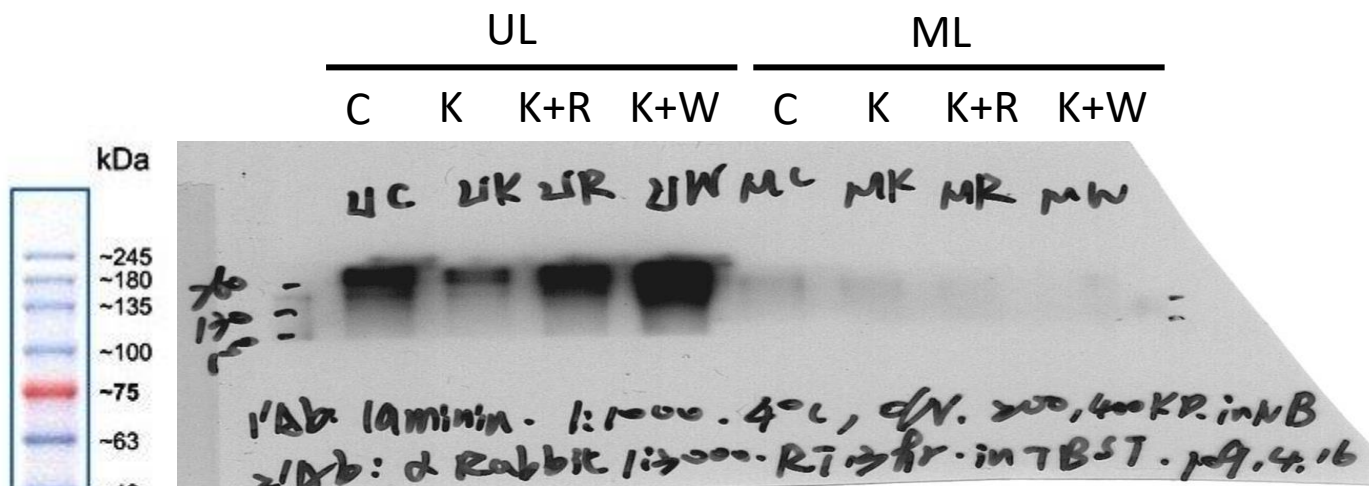
1^o Ab: Abcam, rabbit monoclonal IgG

Catalog number: no.ab11575

Molecular weight (kDa): 200~400 kDa

Working concentration: 1:1000

Gel (%): 8%



Western blot

Protein: Integrin- α 6

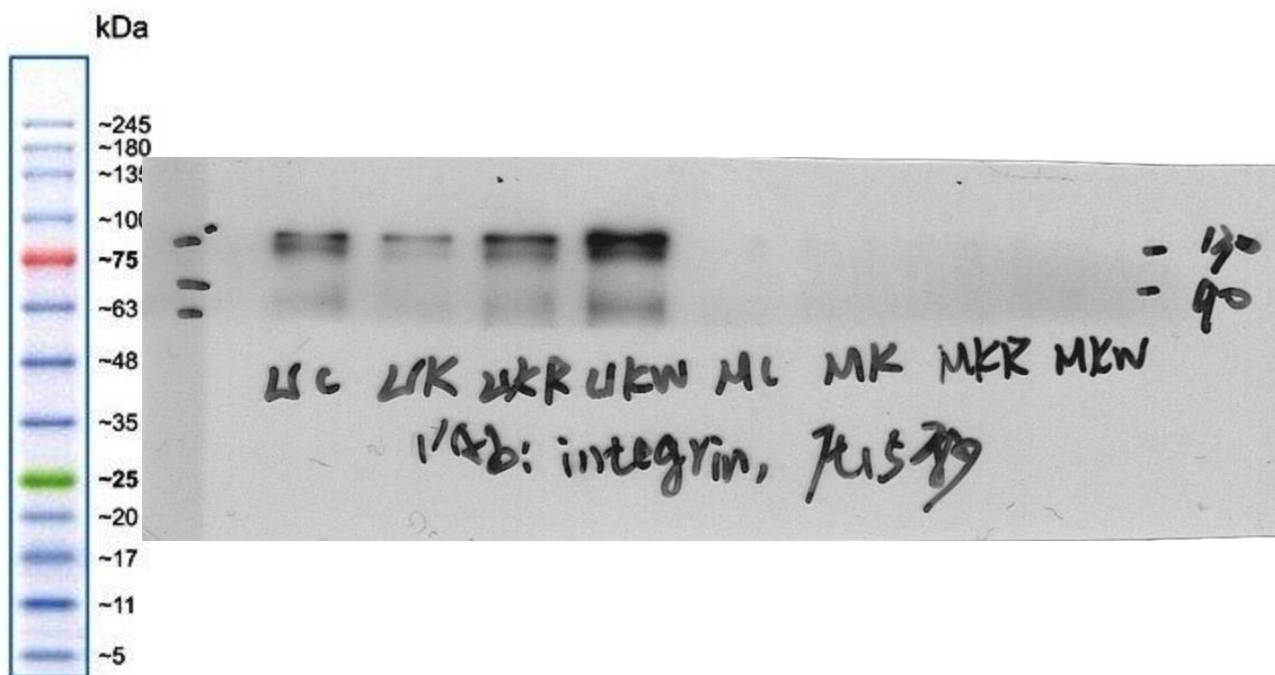
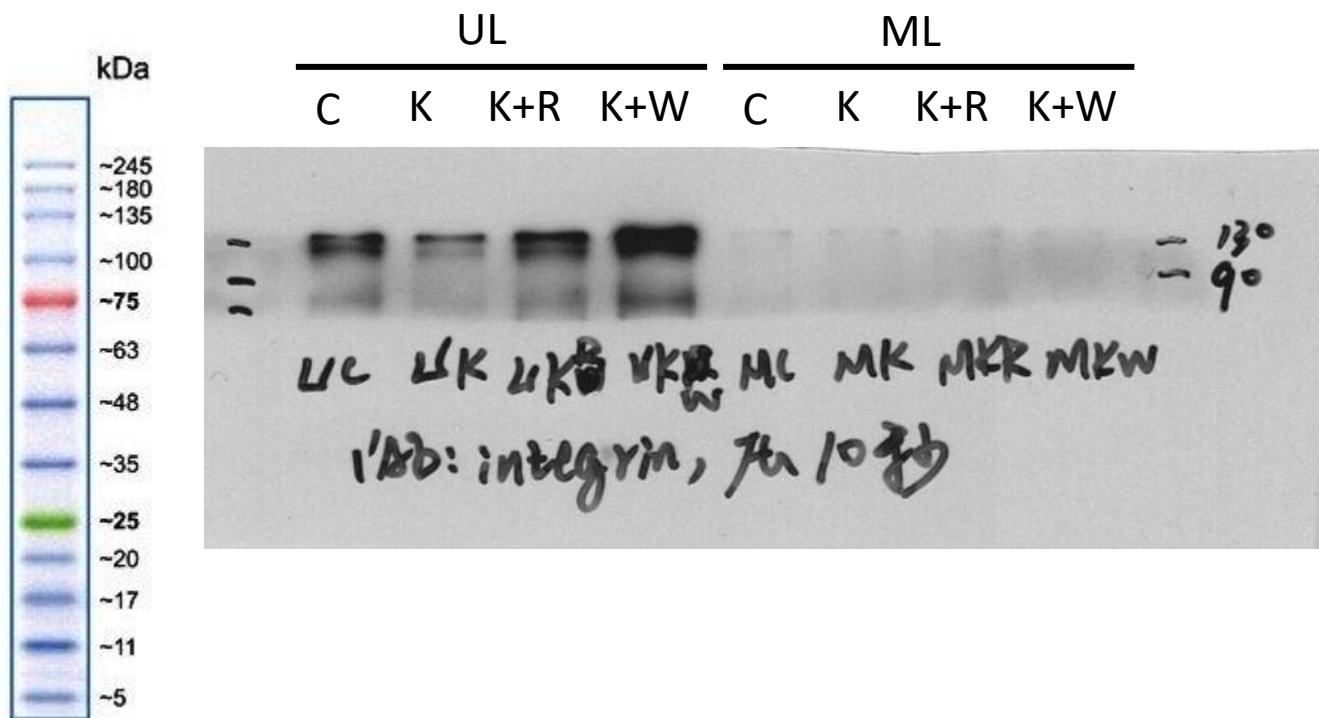
1^o Ab: Abcam, rabbit monoclonal IgG

Catalog number: no.ab181551

Molecular weight (kDa):127 kDa

Working concentration: 1:5000

Gel (%): 8%



Western blot

Protein: Integrin- α 6

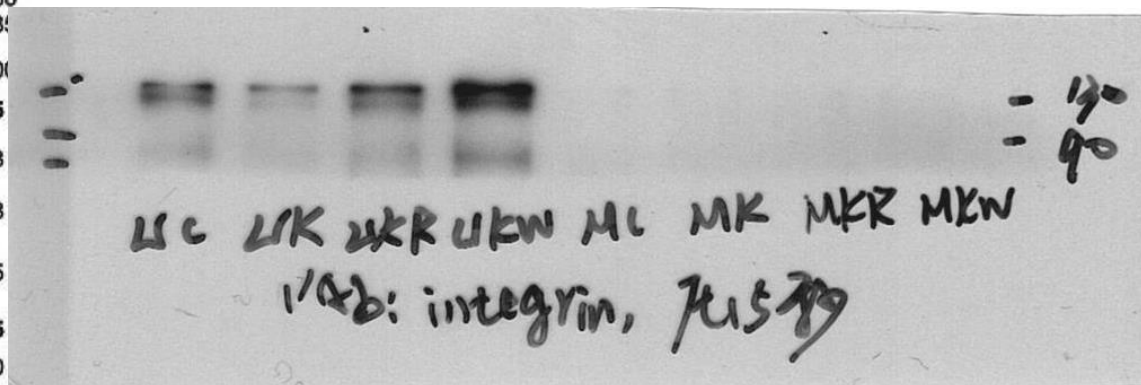
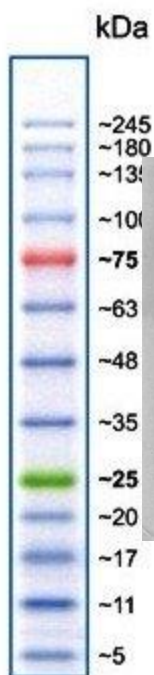
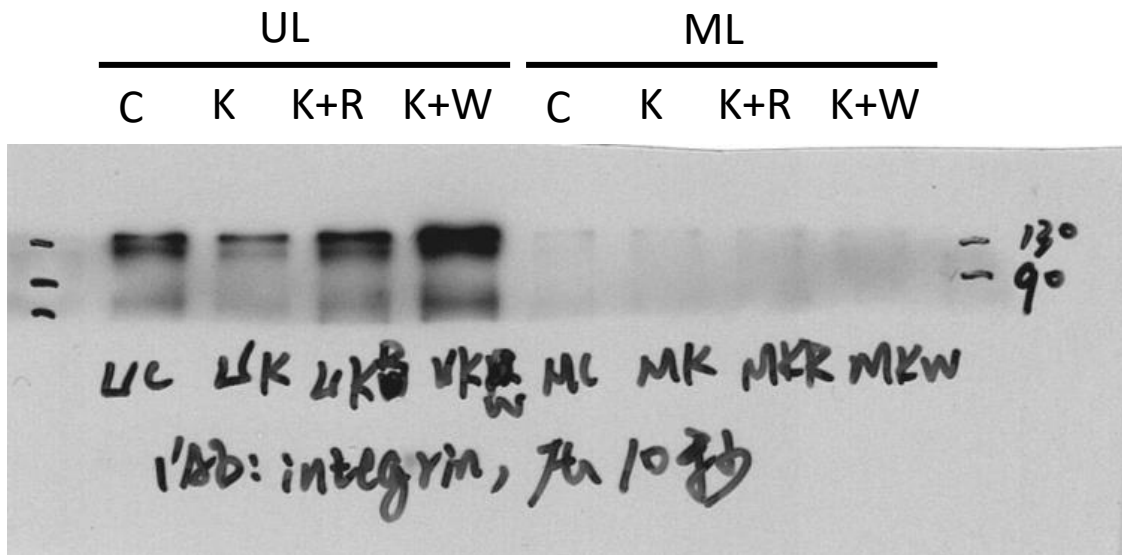
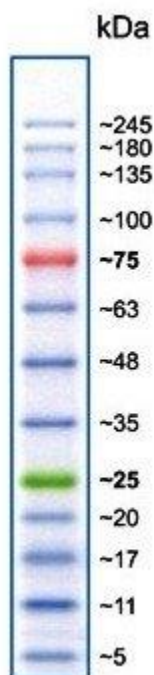
1^o Ab: Abcam, rabbit monoclonal IgG

Catalog number: no.ab181551

Molecular weight (kDa):127 kDa

Working concentration: 1:5000

Gel (%): 8%



Western blot

Protein: Integrin- α 6

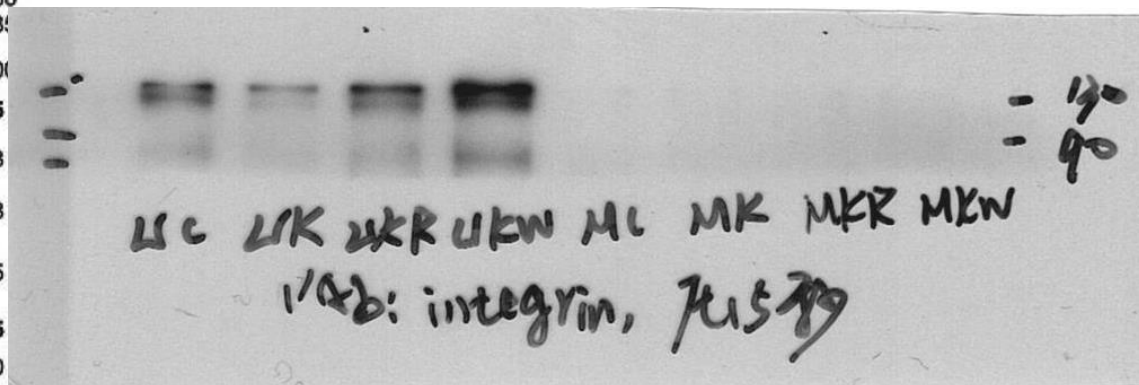
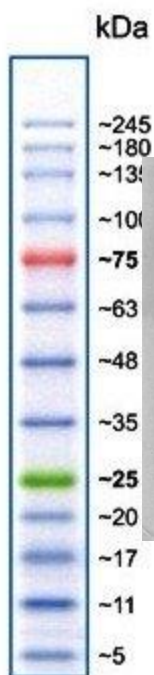
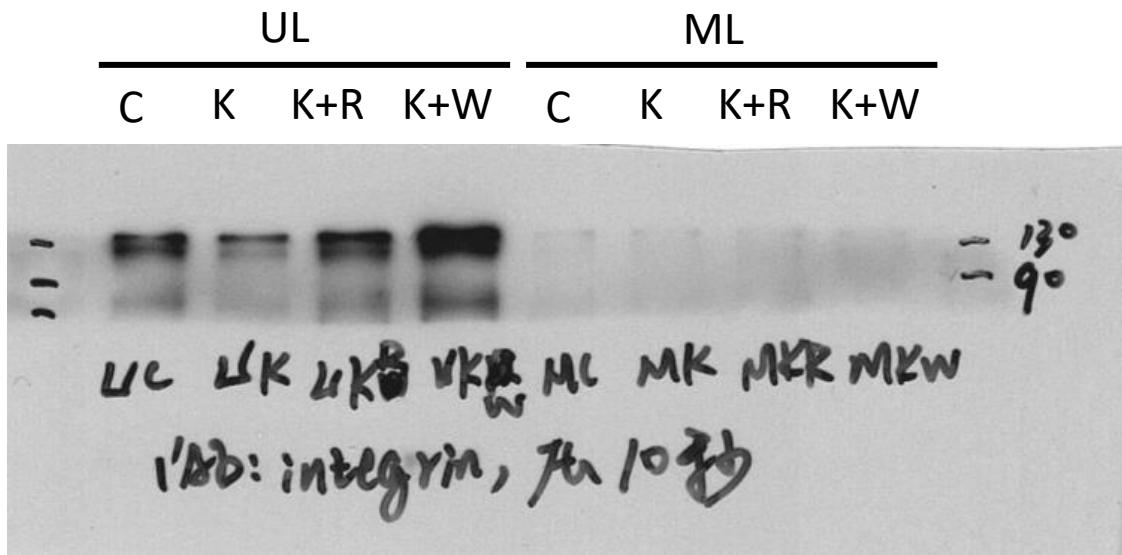
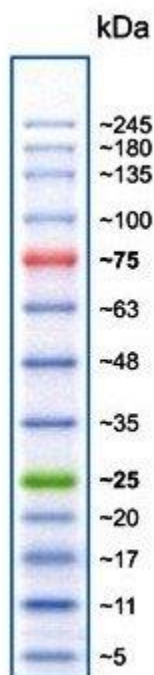
1^o Ab: Abcam, rabbit monoclonal IgG

Catalog number: no.ab181551

Molecular weight (kDa):127 kDa

Working concentration: 1:5000

Gel (%): 8%



Western blot

Protein: GAPDH

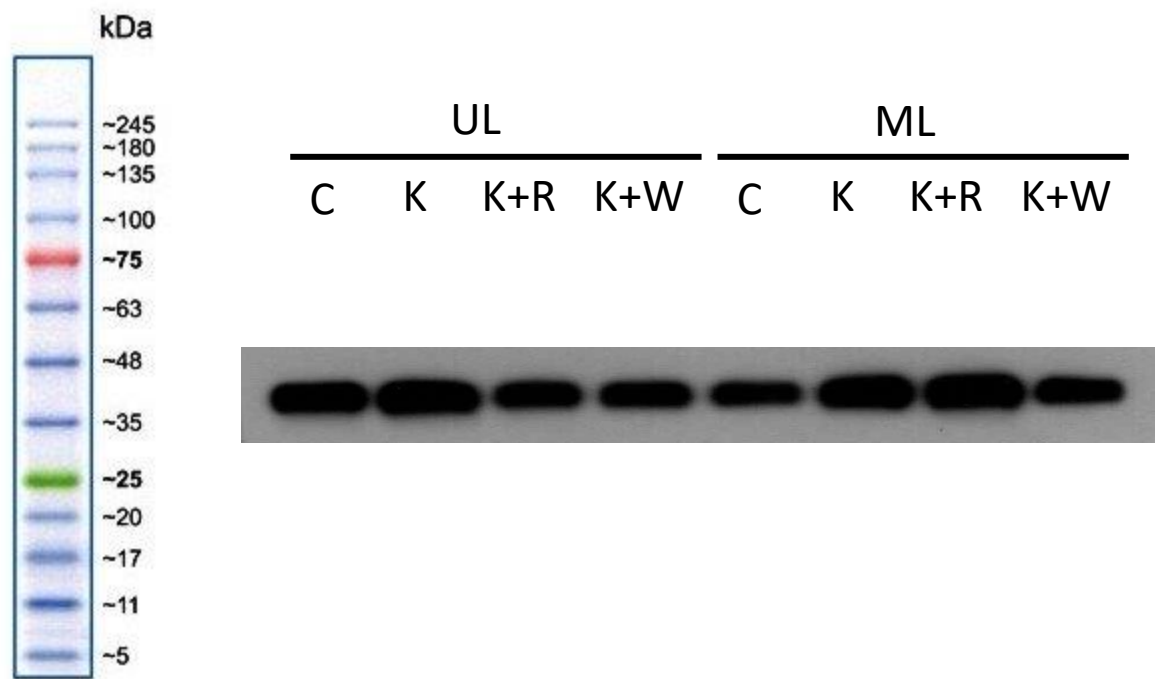
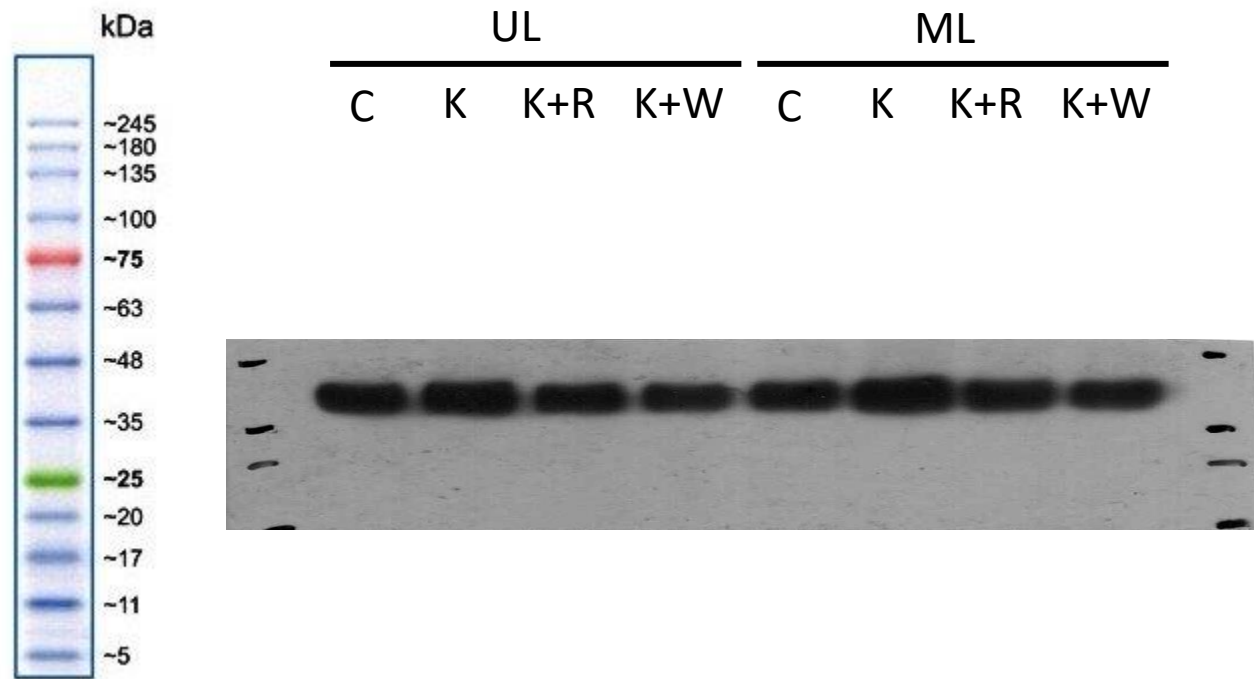
1^o Ab: Millipore, mouse monoclonal IgG1

Catalog number: no. MAB374

Molecular weight (kDa):36 kDa

Working concentration: 1:1000

Gel (%): 8%



Western blot

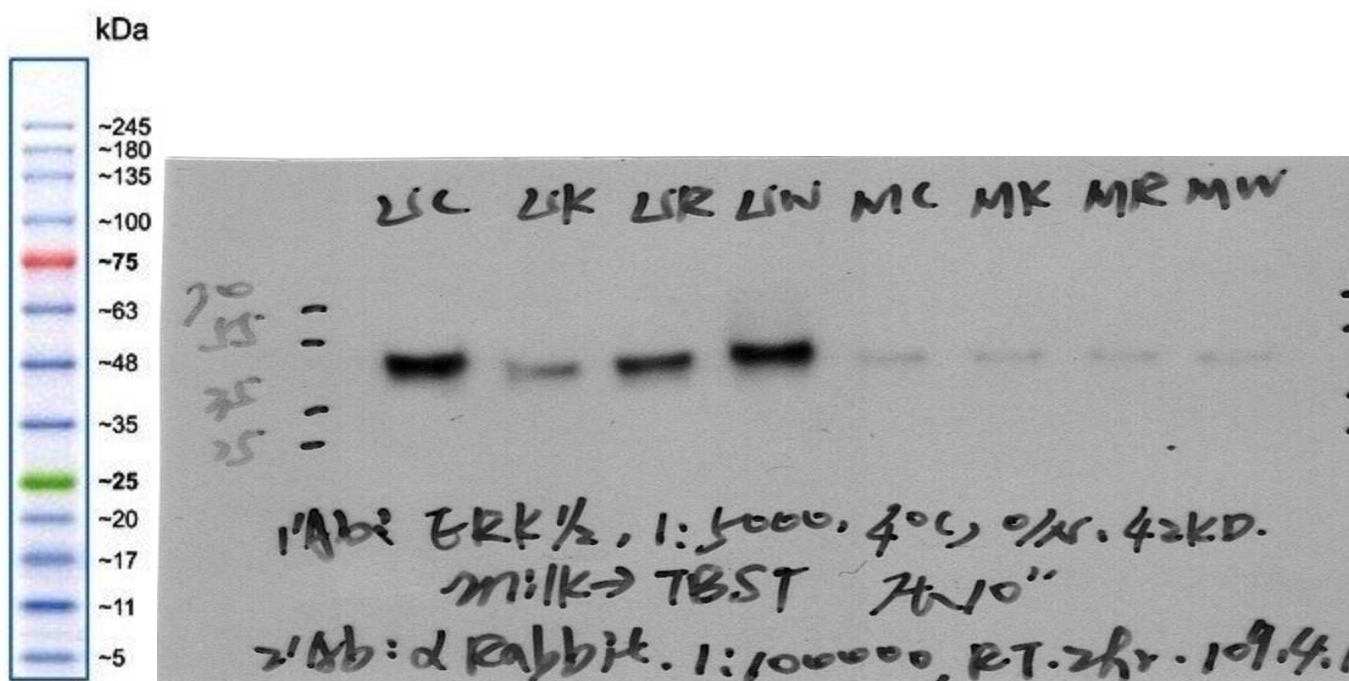
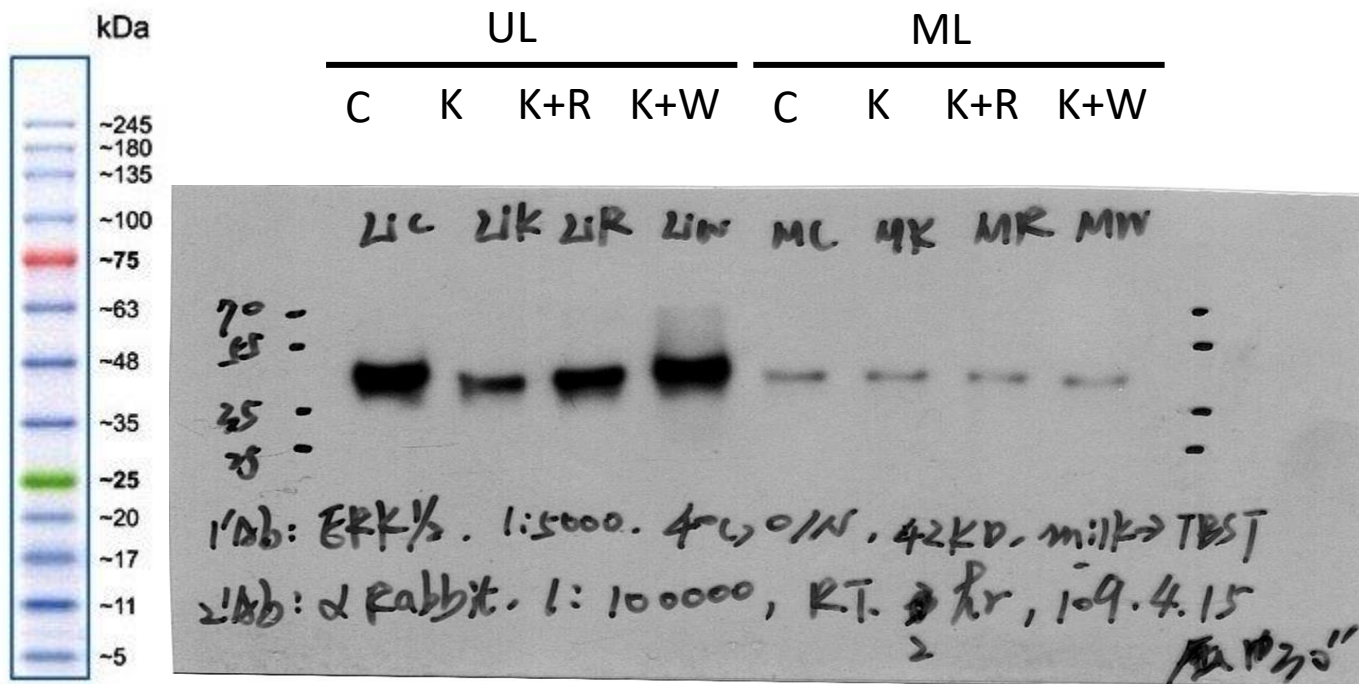
Protein: Erk1/2 (p44/42) **1^o Ab:** Cell Signaling, rabbit monoclonal IgG

Catalog number: no.#9102

Molecular weight (kDa):42~44 kDa

Working concentration: 1:1000

Gel (%): 8%



Western blot

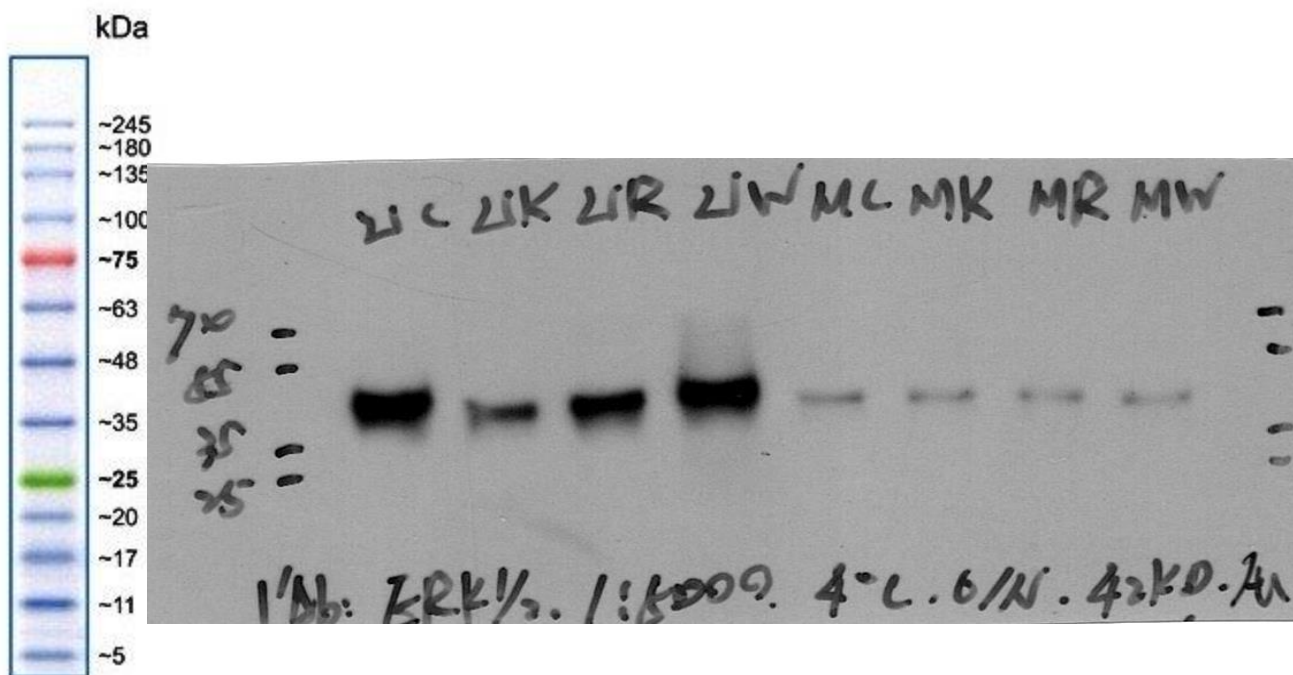
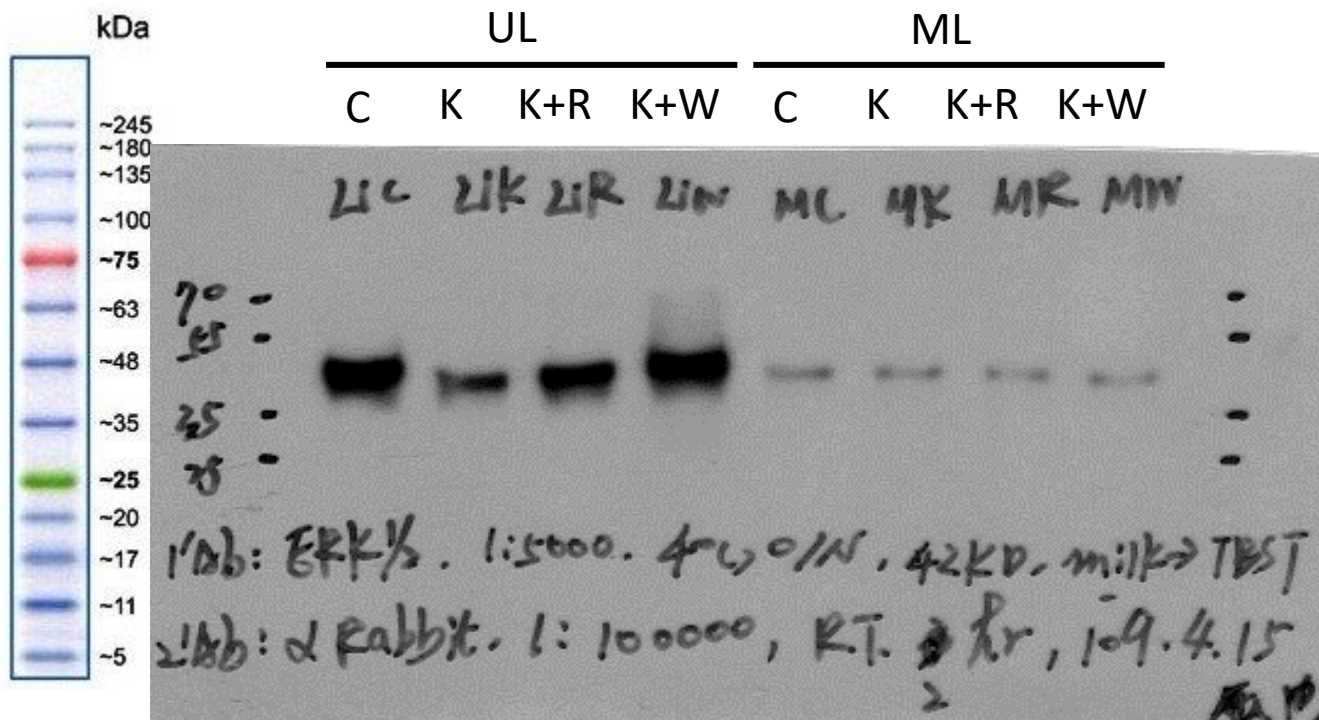
Protein: Erk1/2 (p44/42) **1^o Ab:** Cell Signaling, rabbit monoclonal IgG

Catalog number: no.#9102

Molecular weight (kDa):42~44 kDa

Working concentration: 1:1000

Gel (%): 8%



Western blot

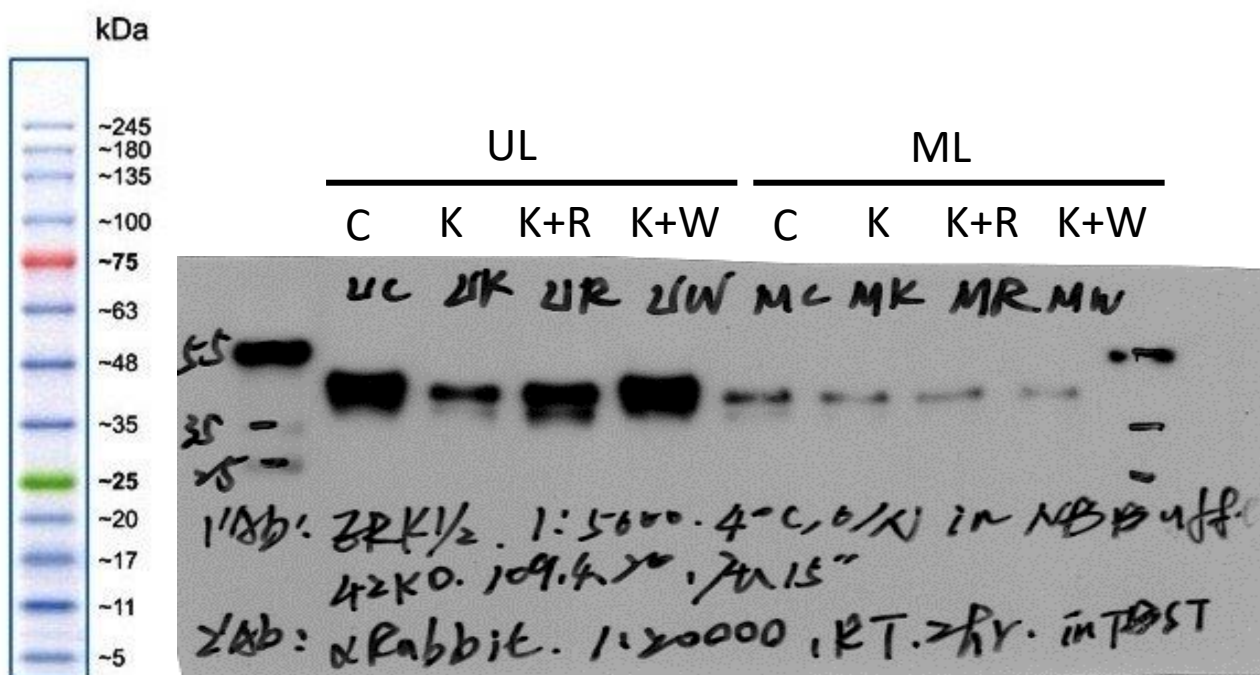
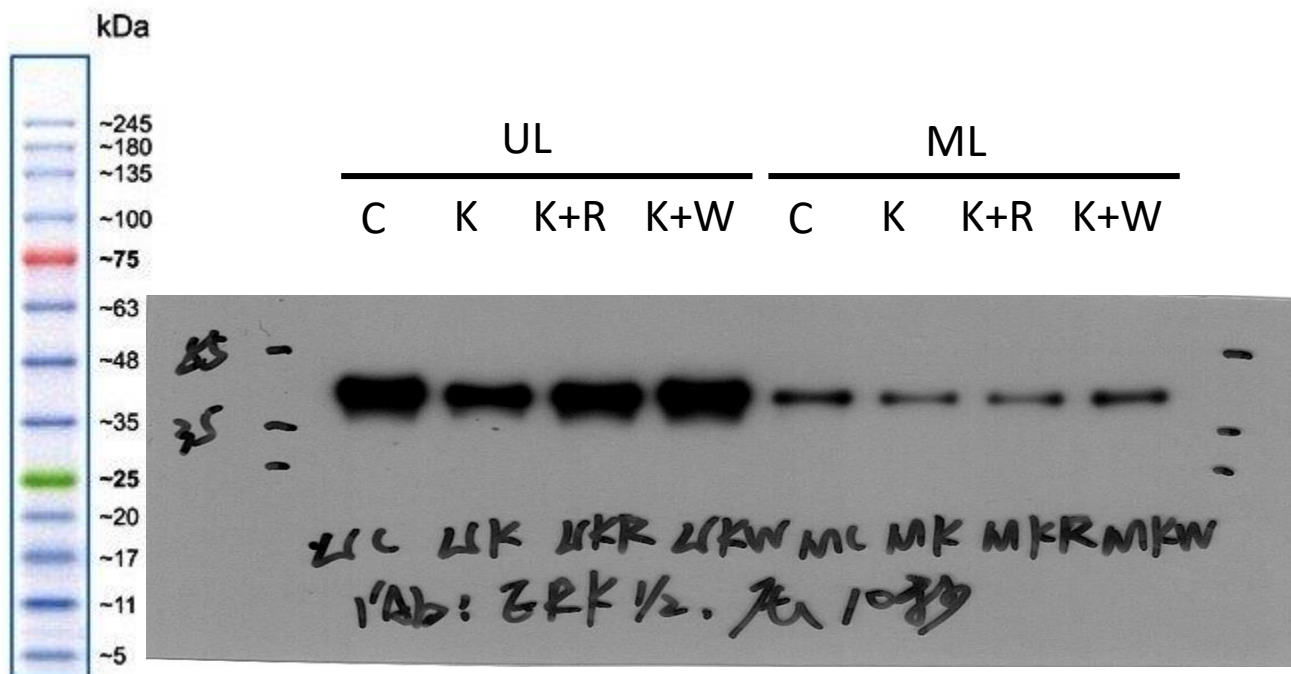
Protein: Erk1/2 (p44/42) **1^o Ab:** Cell Signaling, rabbit monoclonal IgG

Catalog number: no.#9102

Molecular weight (kDa): 42~44 kDa

Working concentration: 1:1000

Gel (%): 8%



Western blot

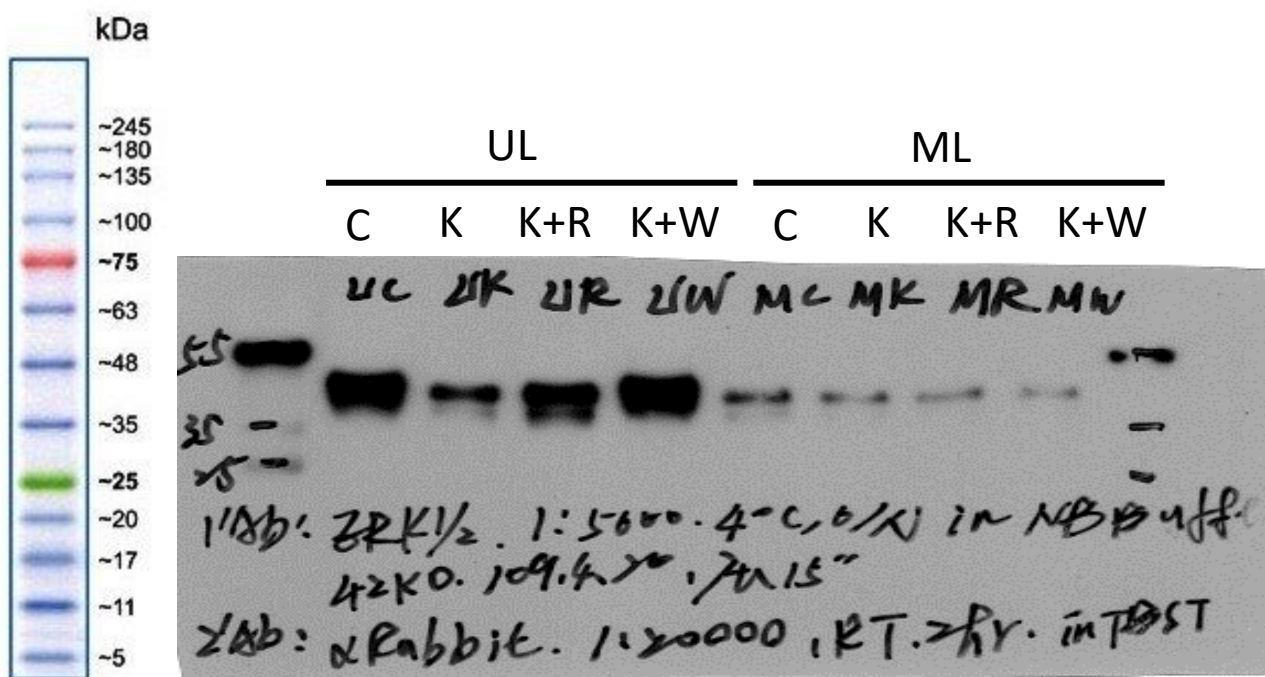
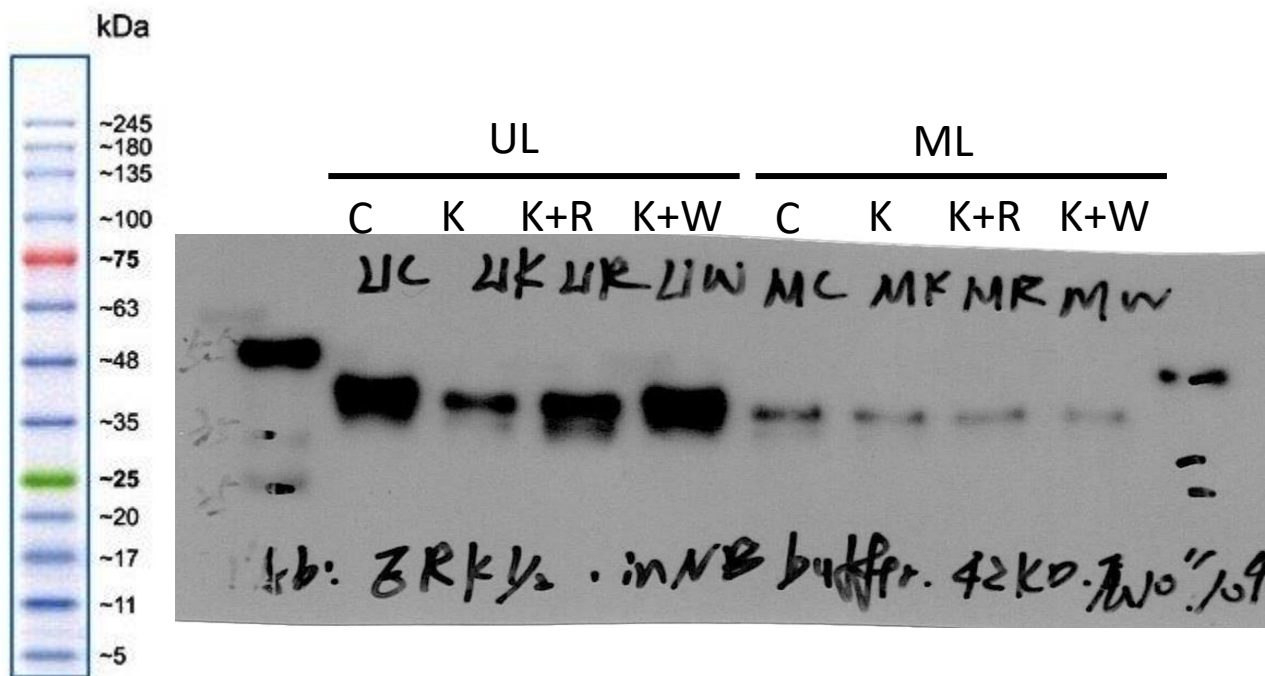
Protein: Erk1/2 (p44/42) **1^o Ab:** Cell Signaling, rabbit monoclonal IgG

Catalog number: no.#9102

Molecular weight (kDa):42~44 kDa

Working concentration: 1:1000

Gel (%): 8%



Western blot

Protein: p-Erk1/2

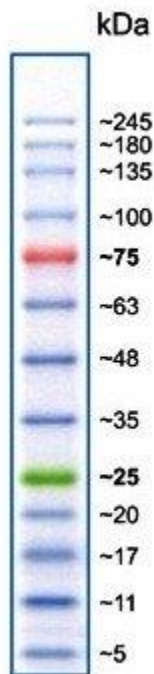
1^o Ab: Cell Signaling, rabbit monoclonal IgG

Catalog number: no.#4370

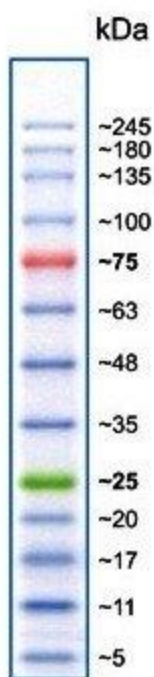
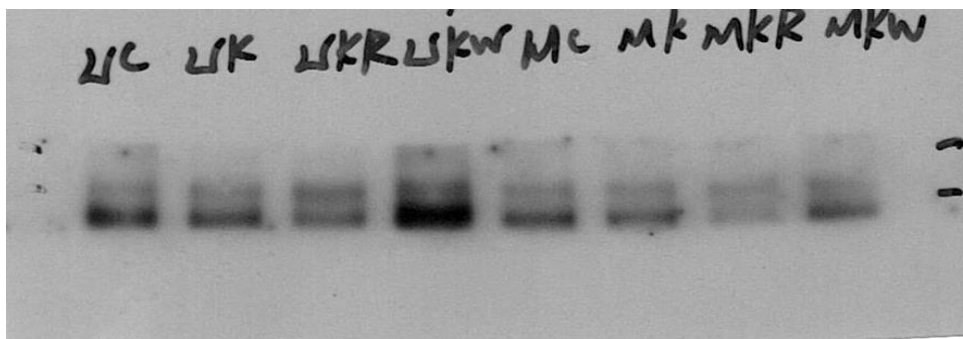
Molecular weight (kDa): 42~44 kDa

Working concentration: 1:2000

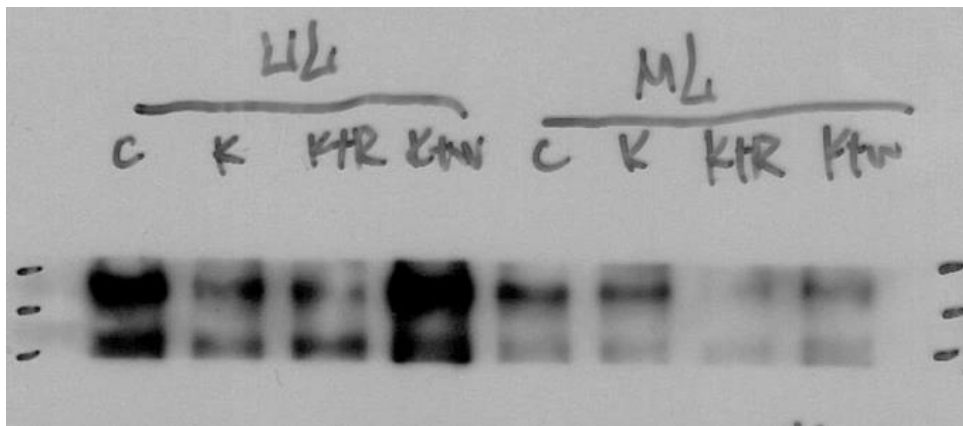
Gel (%): 8%



UL				ML			
C	K	K+R	K+W	C	K	K+R	K+W



UL				ML			
C	K	K+R	K+W	C	K	K+R	K+W



Western blot

Protein: P38

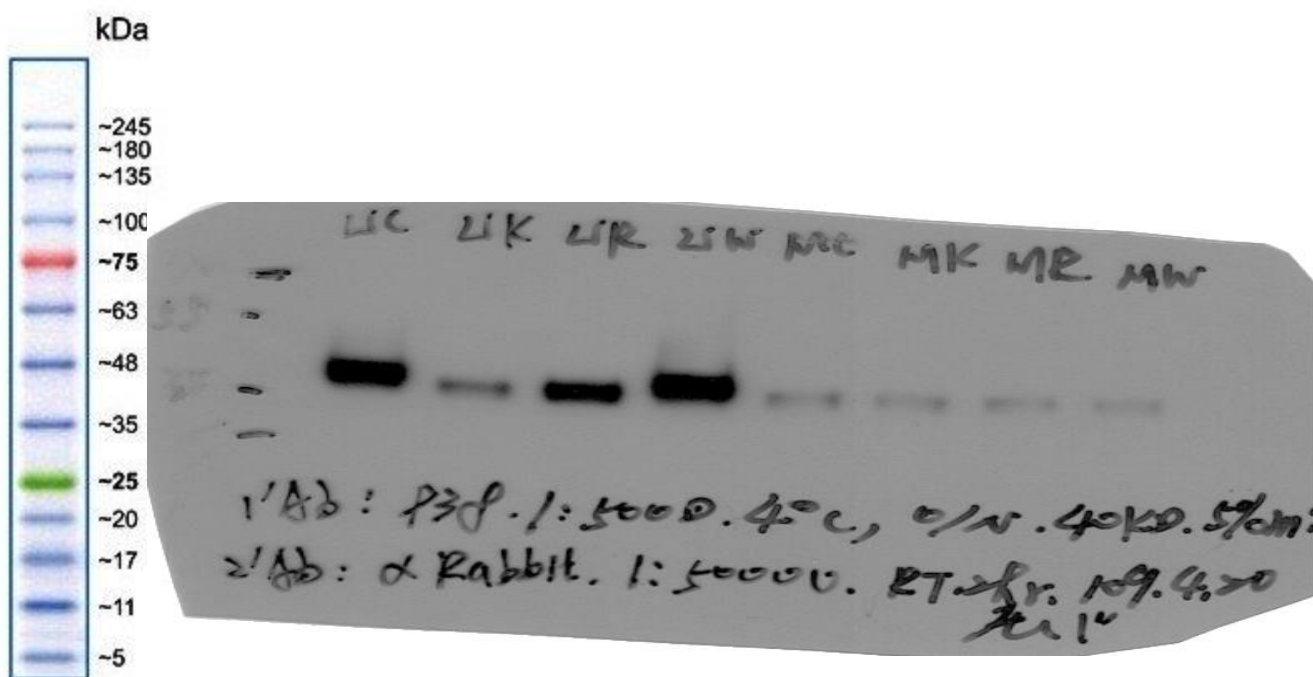
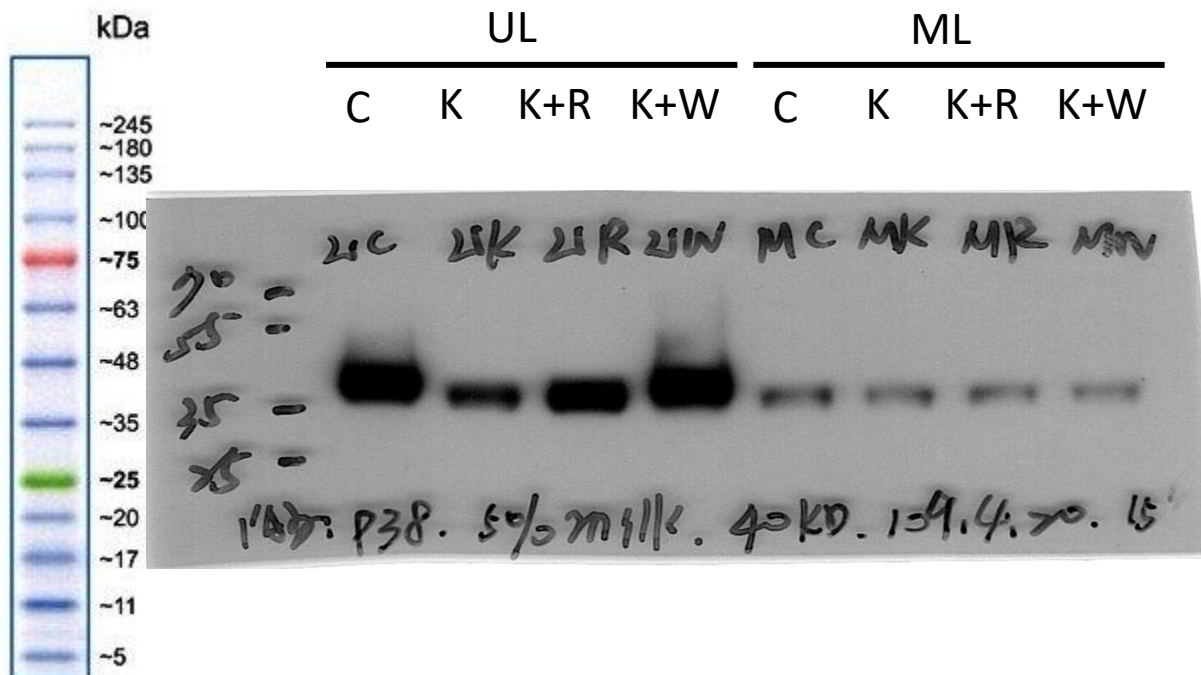
1^o Ab: Cell Signaling, rabbit monoclonal IgG

Catalog number: no.#8690

Molecular weight (kDa): 38~40 kDa

Working concentration: 1:1000

Gel (%): 8%



Western blot

Protein: P38

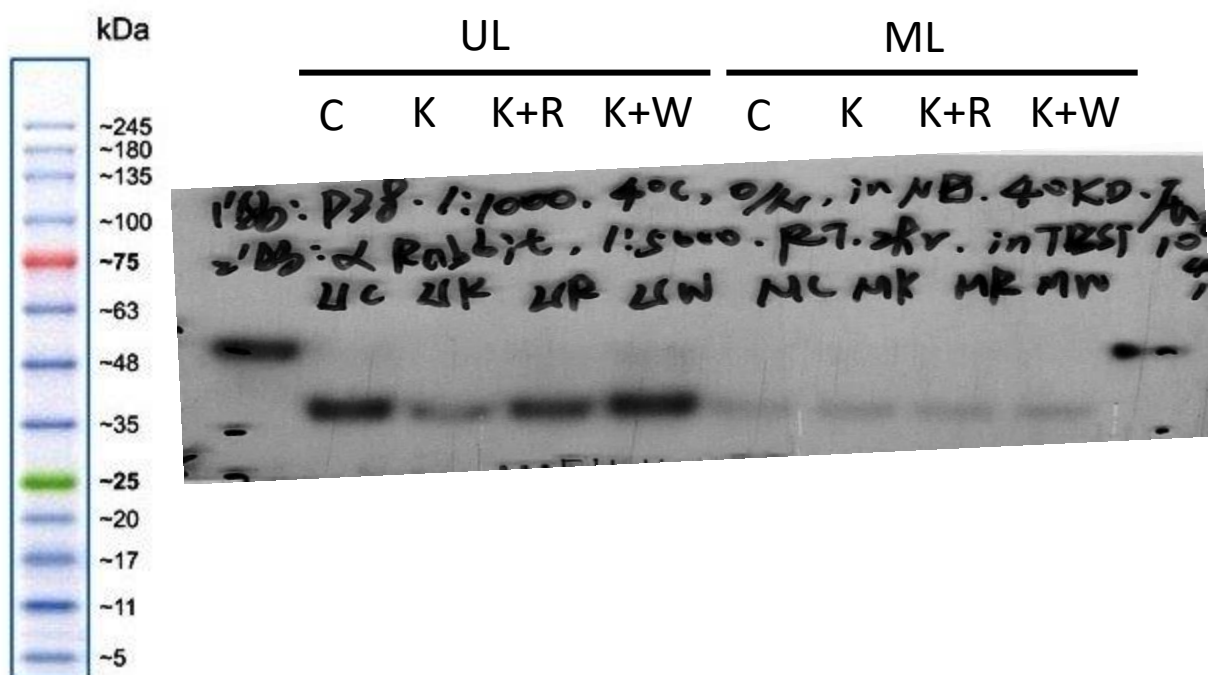
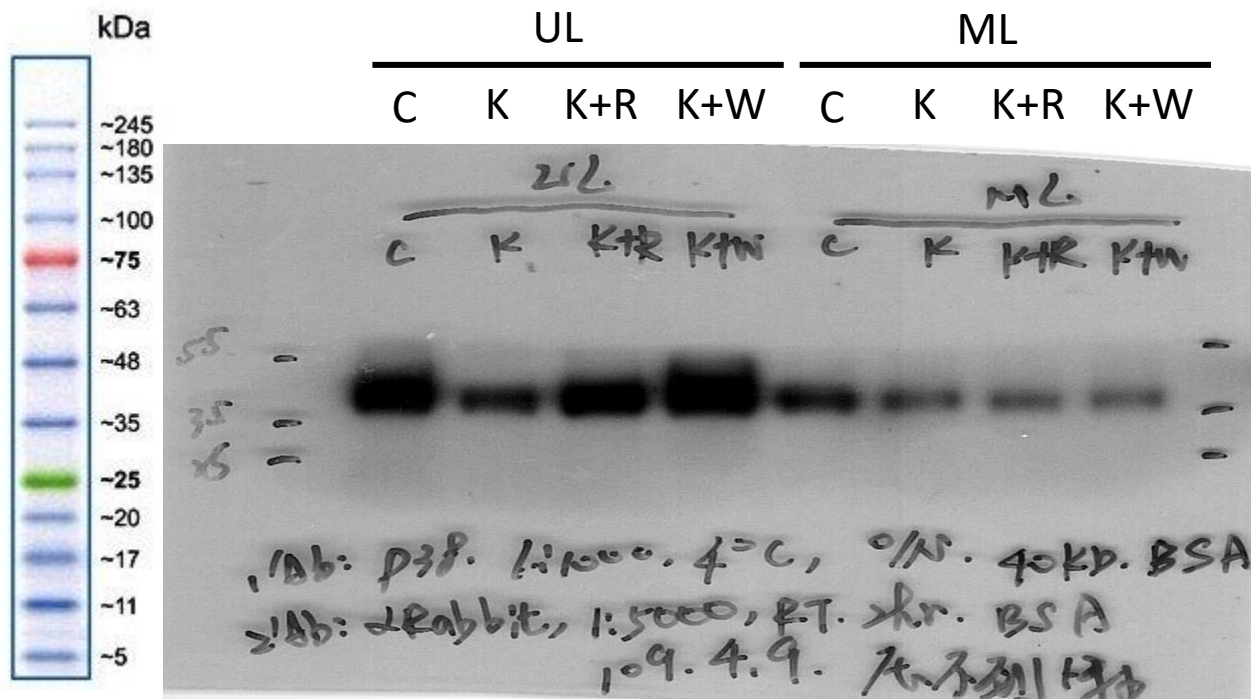
1^o Ab: Cell Signaling, rabbit monoclonal IgG

Catalog number: no.#8690

Molecular weight (kDa): 38~40 kDa

Working concentration: 1:1000

Gel (%): 8%



Western blot

Protein: p-P38

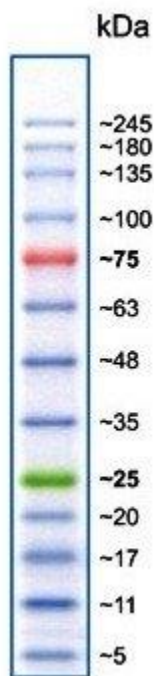
1^o Ab: Cell Signaling, rabbit monoclonal IgG

Catalog number: no.#4511

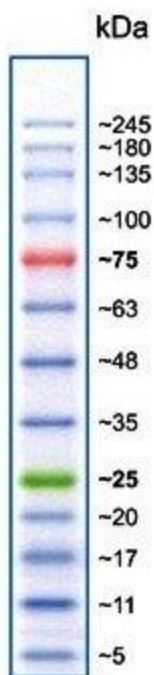
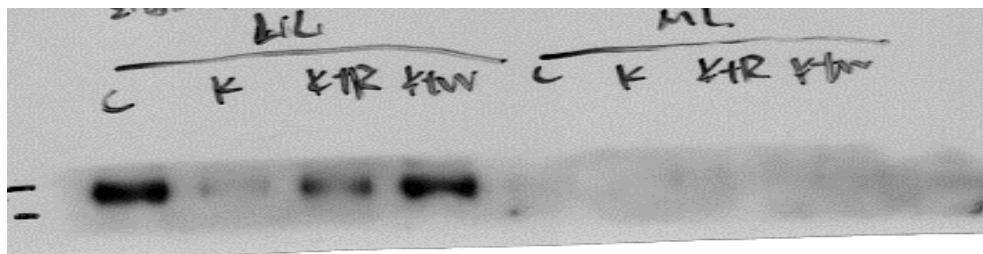
Molecular weight (kDa): 38~40 kDa

Working concentration: 1:1000

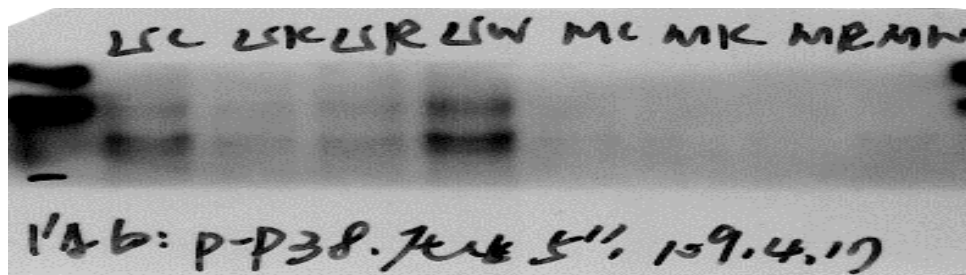
Gel (%): 8%



UL				ML			
C	K	K+R	K+W	C	K	K+R	K+W



UL				ML			
C	K	K+R	K+W	C	K	K+R	K+W



Western blot

Protein: p-P38

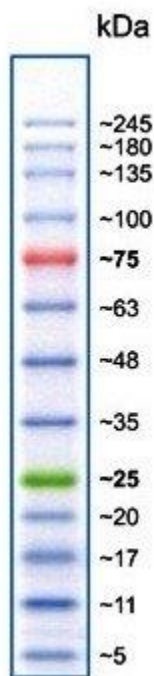
1^o Ab: Cell Signaling, rabbit monoclonal IgG

Catalog number: no.#4511

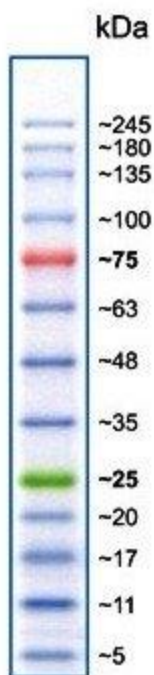
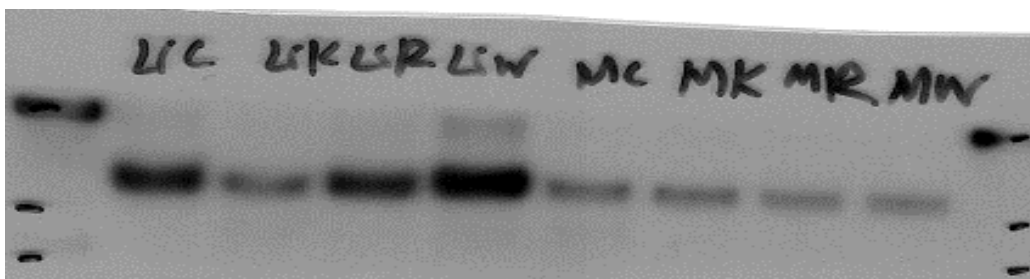
Molecular weight (kDa): 38~40 kDa

Working concentration: 1:1000

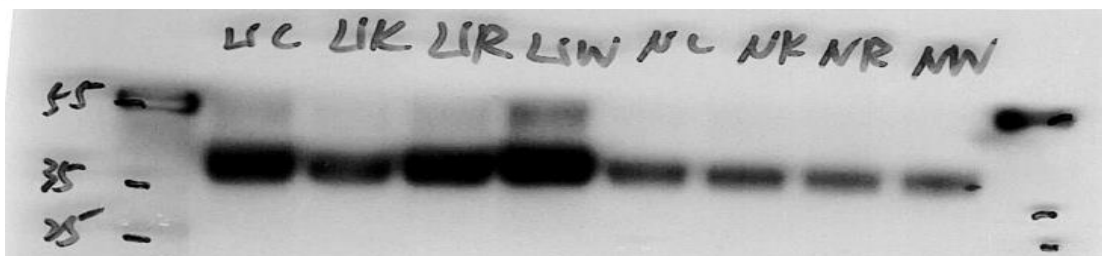
Gel (%): 8%



UL				ML			
C	K	K+R	K+W	C	K	K+R	K+W



UL				ML			
C	K	K+R	K+W	C	K	K+R	K+W



Western blot

Protein: Akt

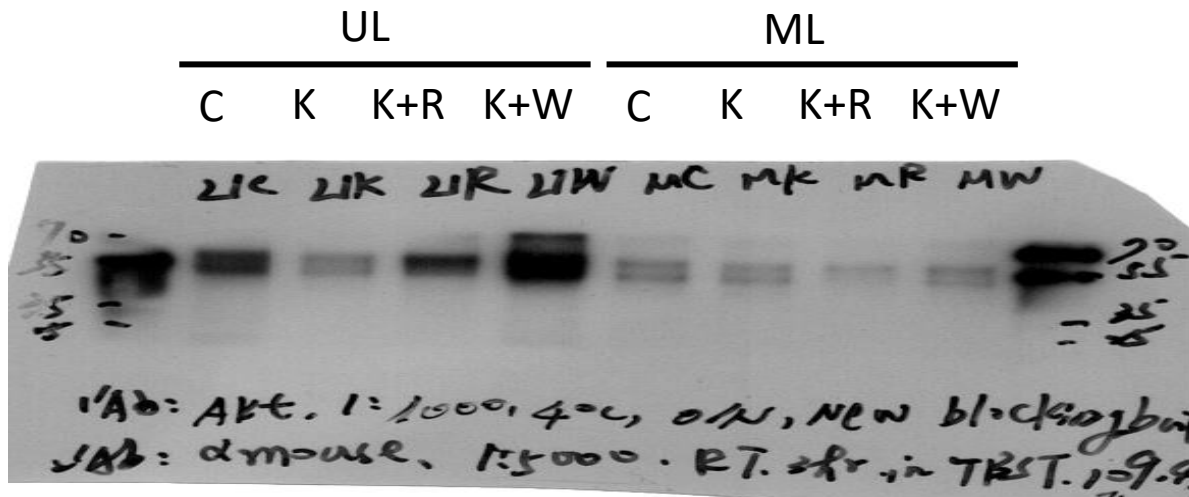
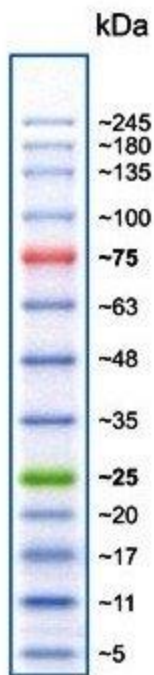
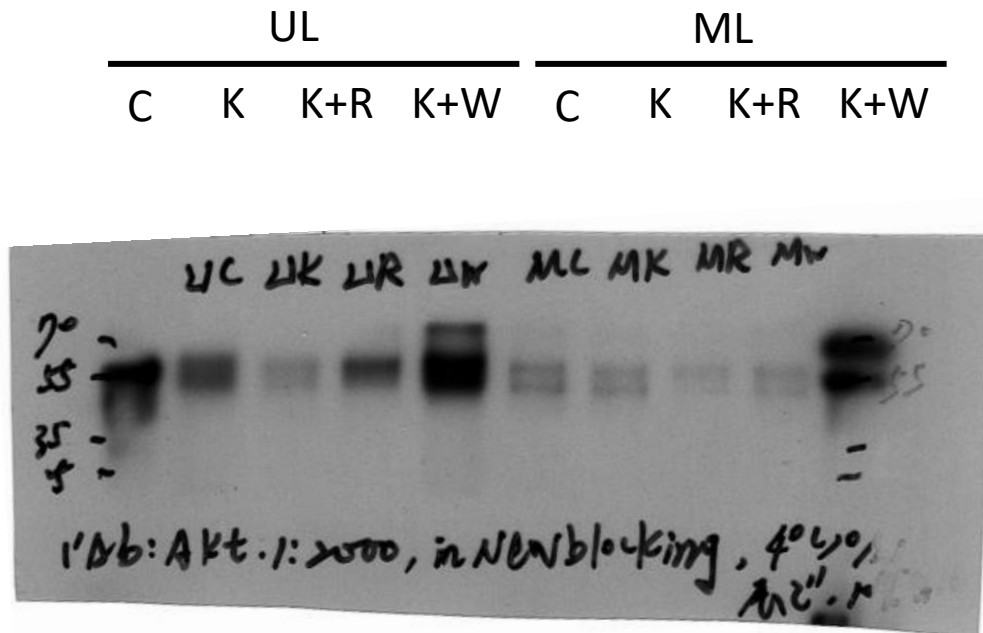
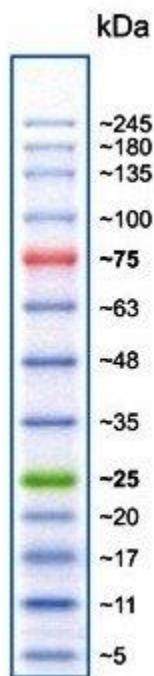
1^o Ab: Cell Signaling, mouse monoclonal IgG

Catalog number: no.#2920

Molecular weight (kDa):60 kDa

Working concentration: 1:2000

Gel (%): 8%



Western blot

Protein: Akt

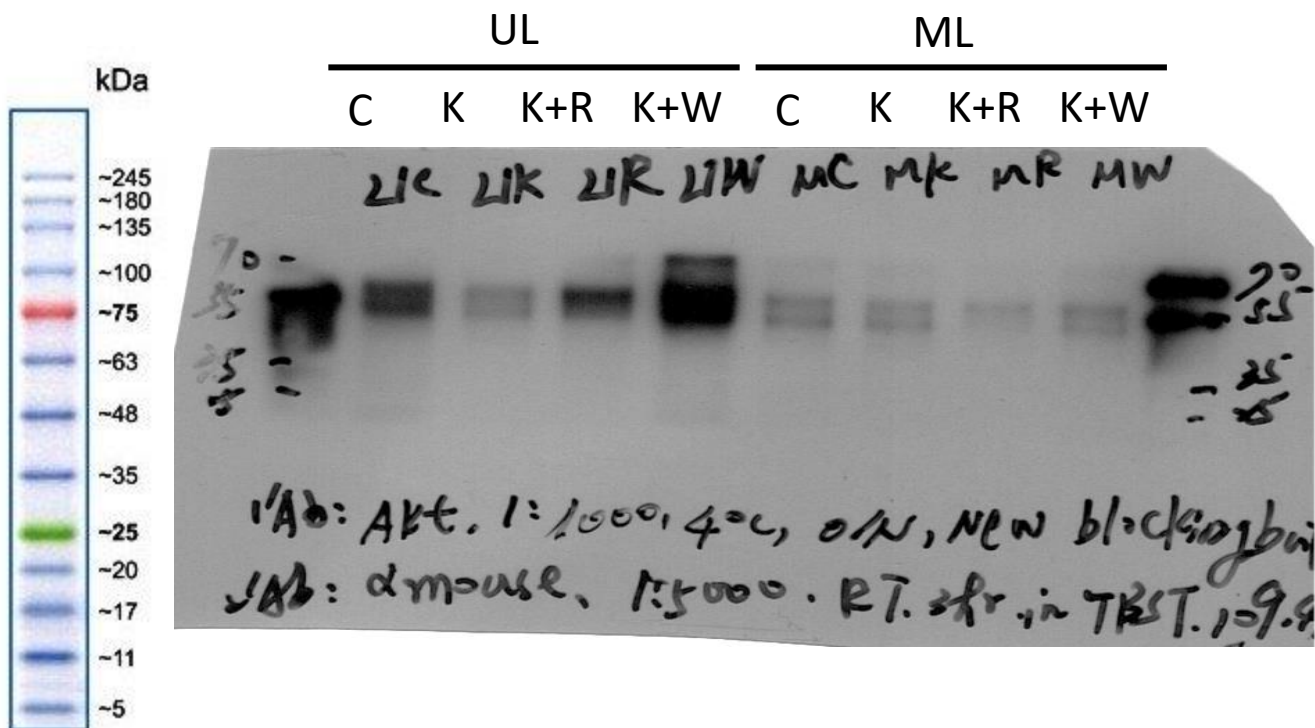
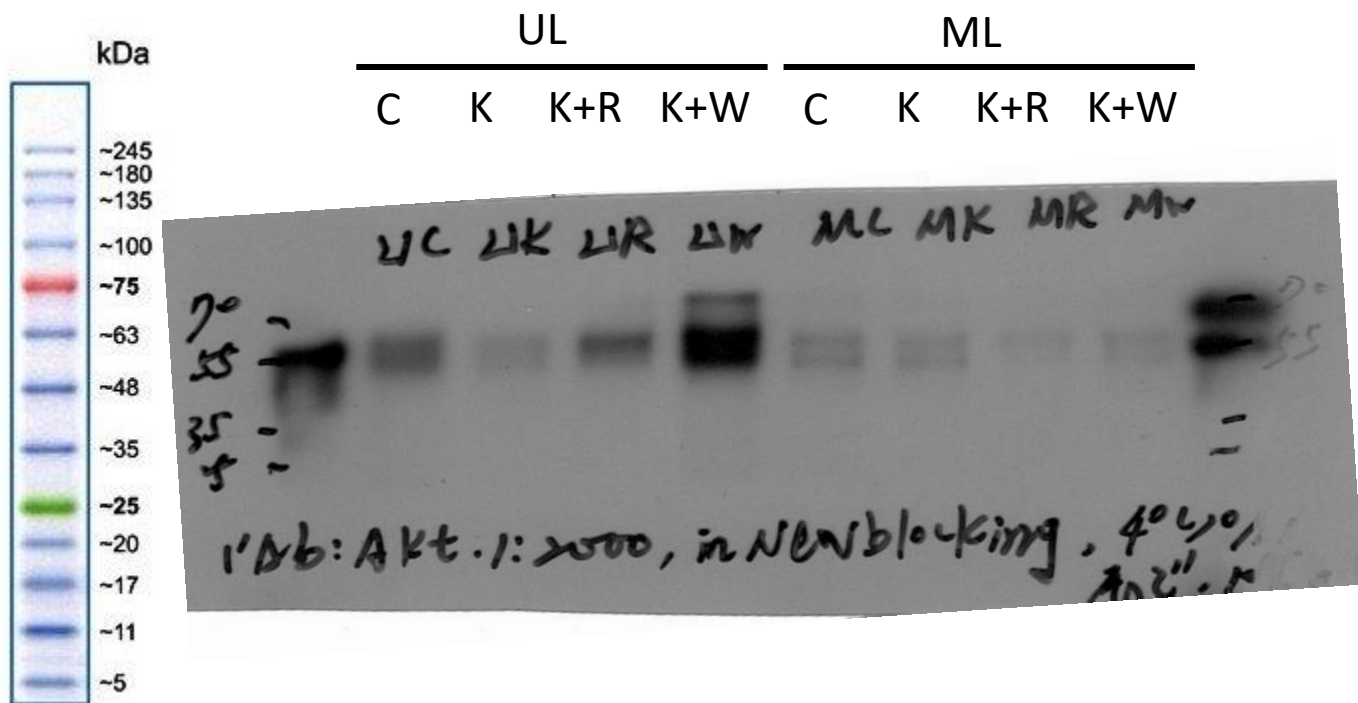
1^o Ab: Cell Signaling, mouse monoclonal IgG

Catalog number: no.#2920

Molecular weight (kDa):60 kDa

Working concentration: 1:2000

Gel (%): 8%



Western blot

Protein: p-Akt

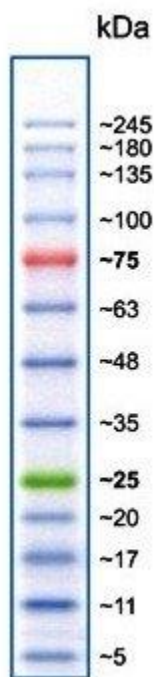
1^o Ab: Cell Signaling, rabbit monoclonal IgG

Catalog number: no.#4060

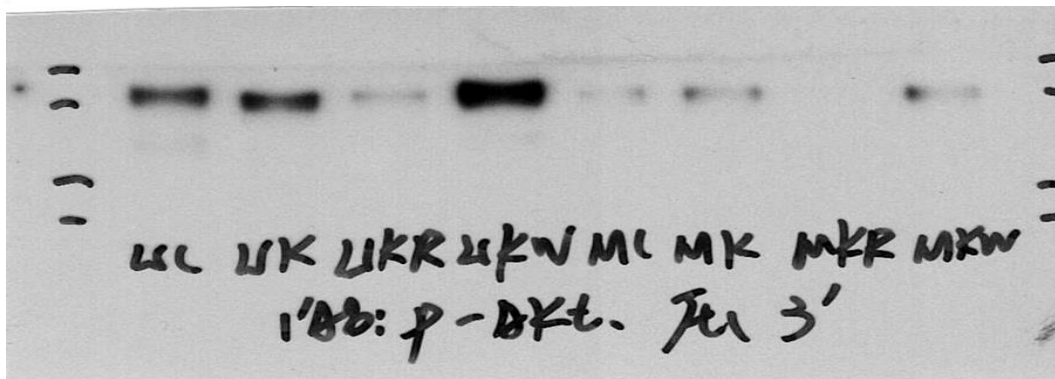
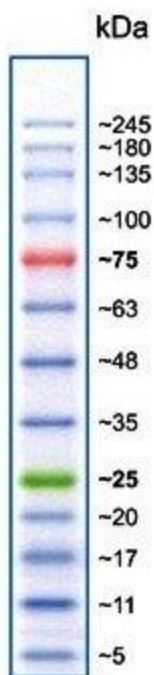
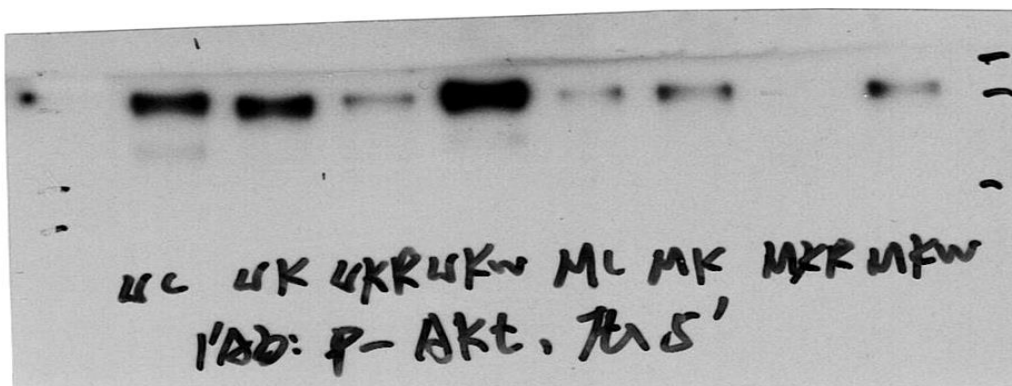
Molecular weight (kDa):60 kDa

Working concentration: 1:1000

Gel (%): 8%



UL				ML			
C	K	K+R	K+W	C	K	K+R	K+W



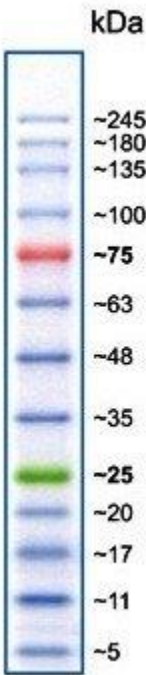
Western blot

Protein: GAPDH

1^o Ab: Millipore, mouse monoclonal IgG1

Catalog number: no. MAB374 Molecular weight (kDa):36 kDa

Working concentration: 1:1000 Gel (%): 8%



UL				ML			
C	K	K+R	K+W	C	K	K+R	K+W

