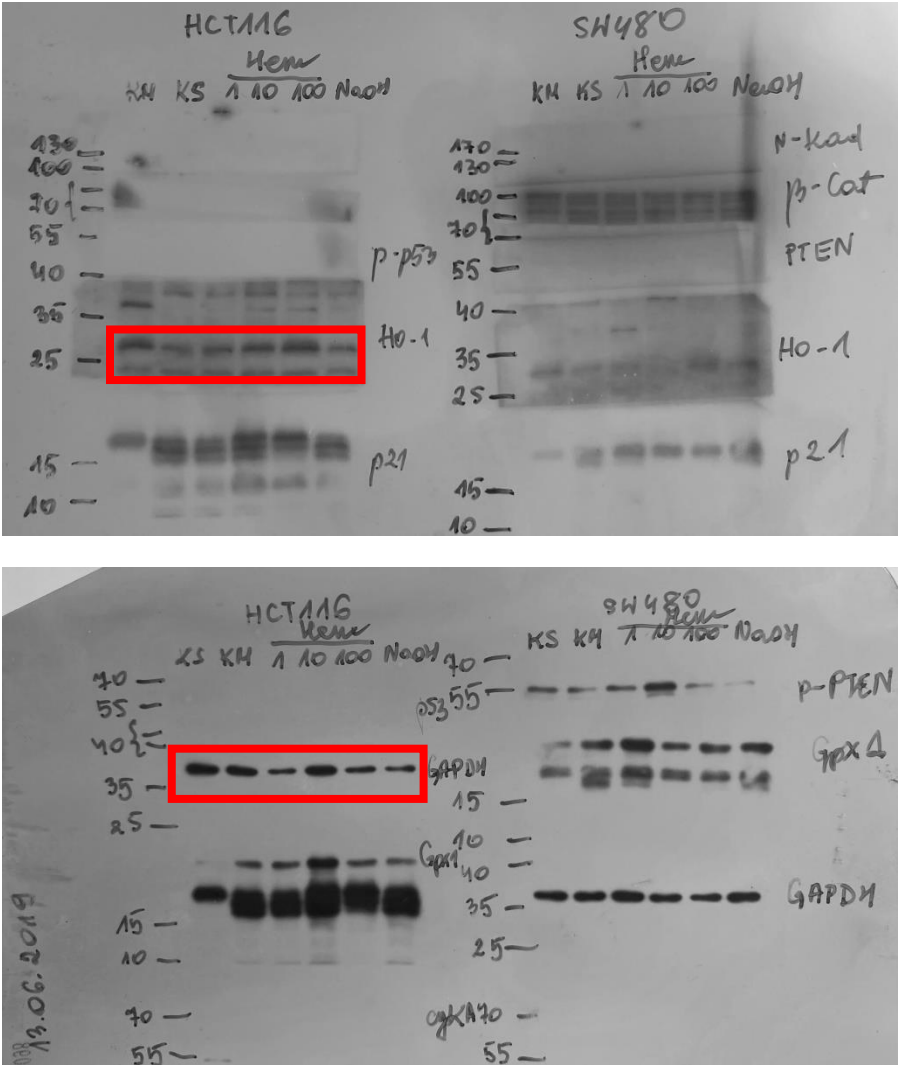


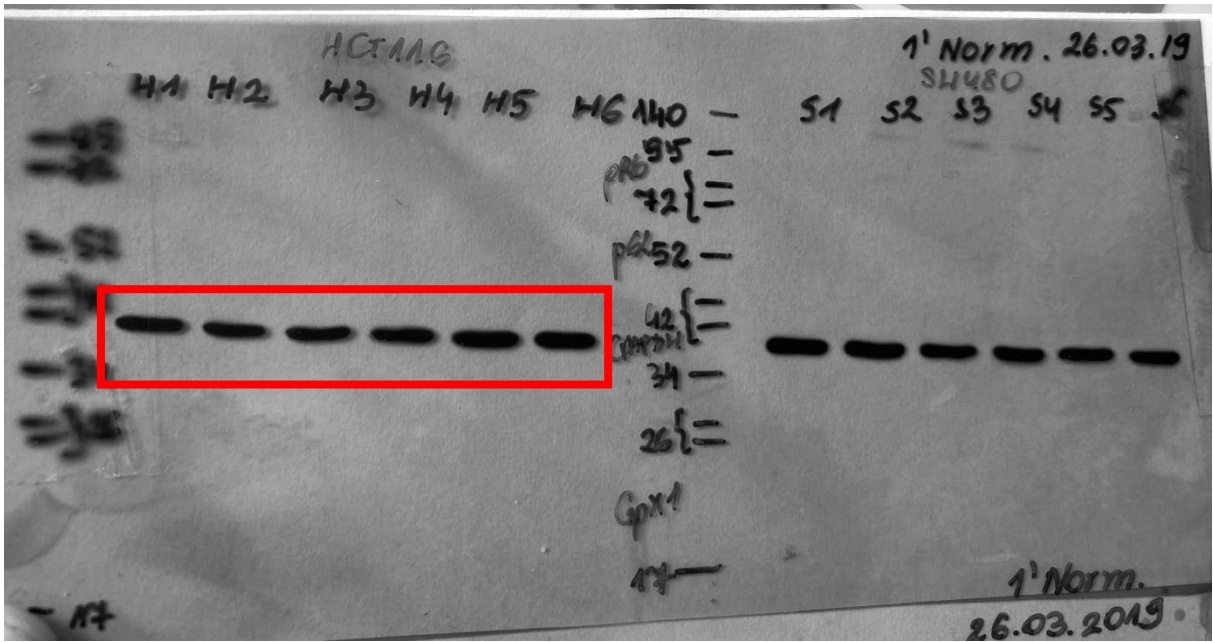
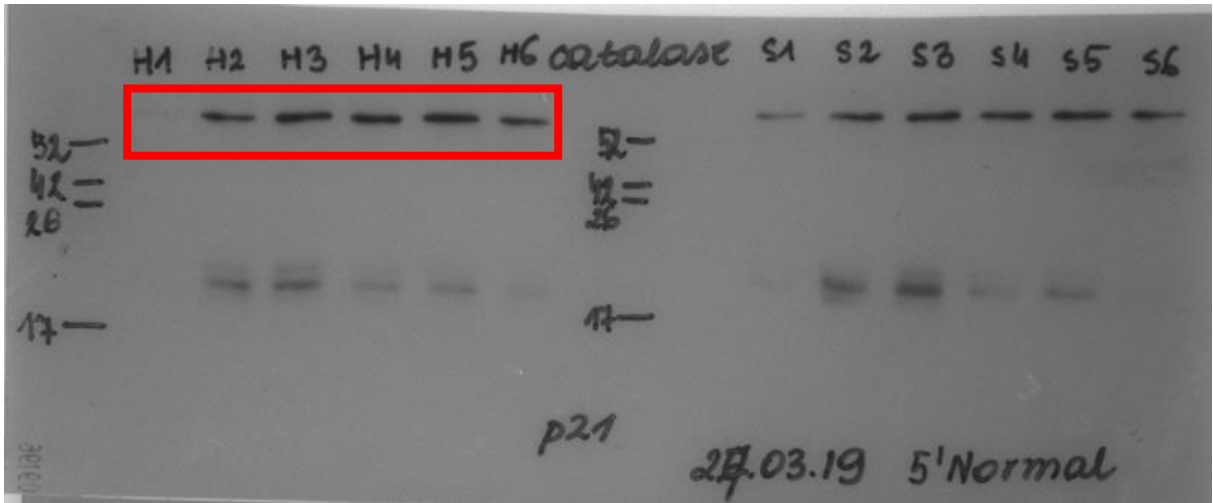
Representative blots showing raw data of protein expression analysis:

(**1–11**) in HCT116 cells treated with 2.5 μ M IRINO and exposed to 1, 10 or 100 μ M hemin: (1) HO-1; (2) CAT; (3) GPx-1; (4) cyclin A; (5) cyclin B; (6) p-cdc2; (7) p-Rb; (8) p21; (9) p-S6; (10) PARP-1; (11) γ -H2AX; (**12–24**) in HCT116 treated with 2.5 μ M IRINO and exposed to 5 or 10 μ M H2O2 and collected after 4th and 7th days of the experiment: (12) HO-1; (13) CAT; (14) GPx-1; (15) cyclin A; (16) cyclin B; (17) p-cdc2; (18) p-Rb; (19) p21; (20) p-S6; (21) p53; (22) E-cadherin; (23) Snail; (24) Nanog; (**25–37**) in HCT116 cells treated with 2.5 μ M IRINO and exposed to 100 μ M hemin, where antioxidative enzymes: HO-1, CAT or GPx-1 were silenced with use of siRNAs: (25) HO-1; (26) CAT; (27) GPx-1; (28) cyclin A; (29) cyclin B; (30) p-cdc2; (31) pRb; (32) p21; (33) p-S6; (34) PARP-1; (35) E-cadherin; (36) Snail; (37) Nanog; (**38–51**) in HCT116 cells treated with 2.5 μ M IRINO and exposed to 100 μ M hemin, where CAT was silenced with use of siRNAs, cells were cultured in normoxia or hypoxia: (38) HO-1; (39) CAT; (40) GPx-1; (41) cyclin A; (42) cyclin B; (43) p-cdc2; (44) p-Rb; (45) p21; (46) p-S6; (47) PARP-1; (48) p53; (49) E-cadherin; (50) Snail; (51) Nanog.



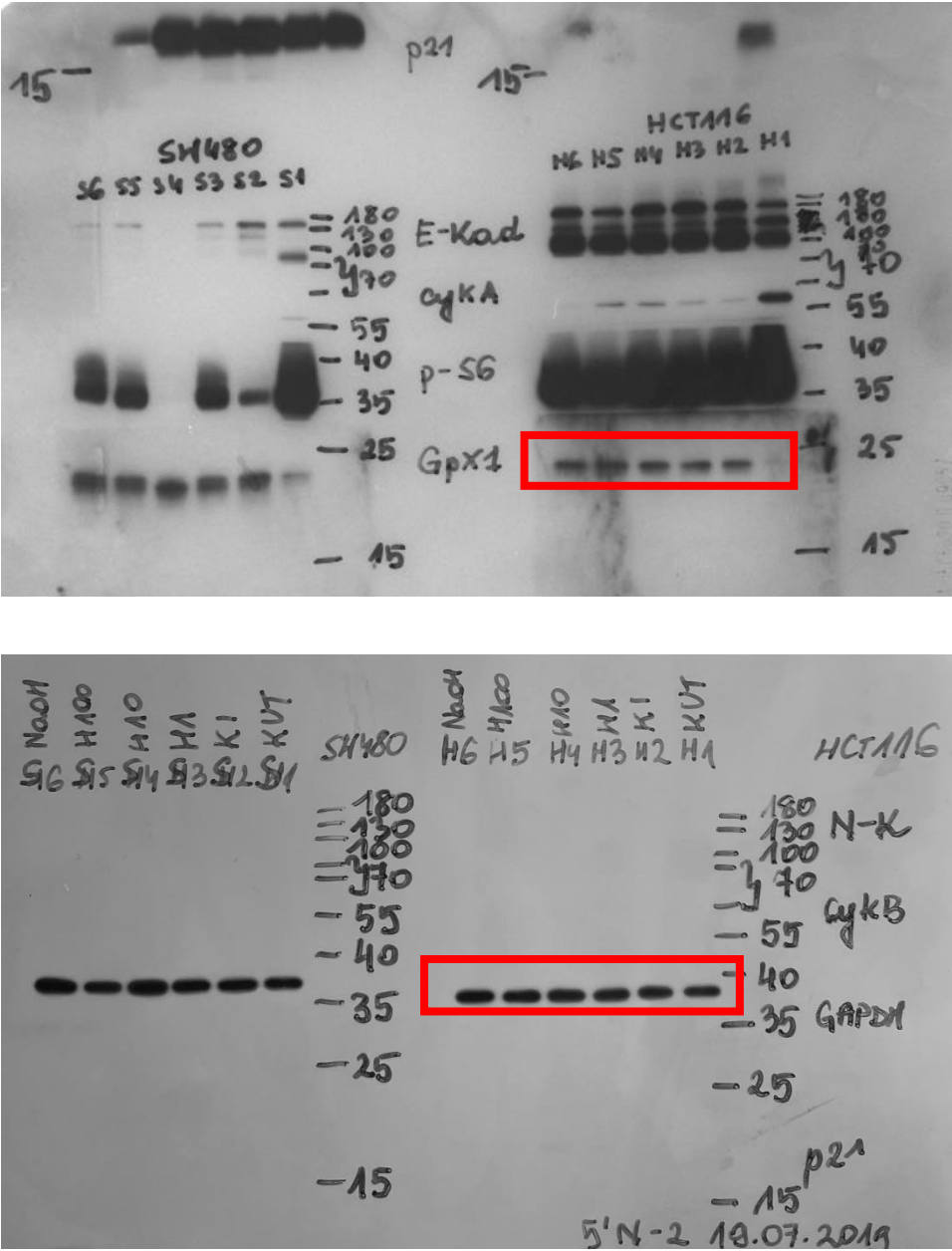
KM – Untreated Control
KS – Irinotecan
1 – Irinotecan + 1 uM Hemin
10 – Irinotecan + 10 uM Hemin
100 – Irinotecan + 100 uM Hemin
NaOH – Irinotecan + NaOH

Fig. A.II.1



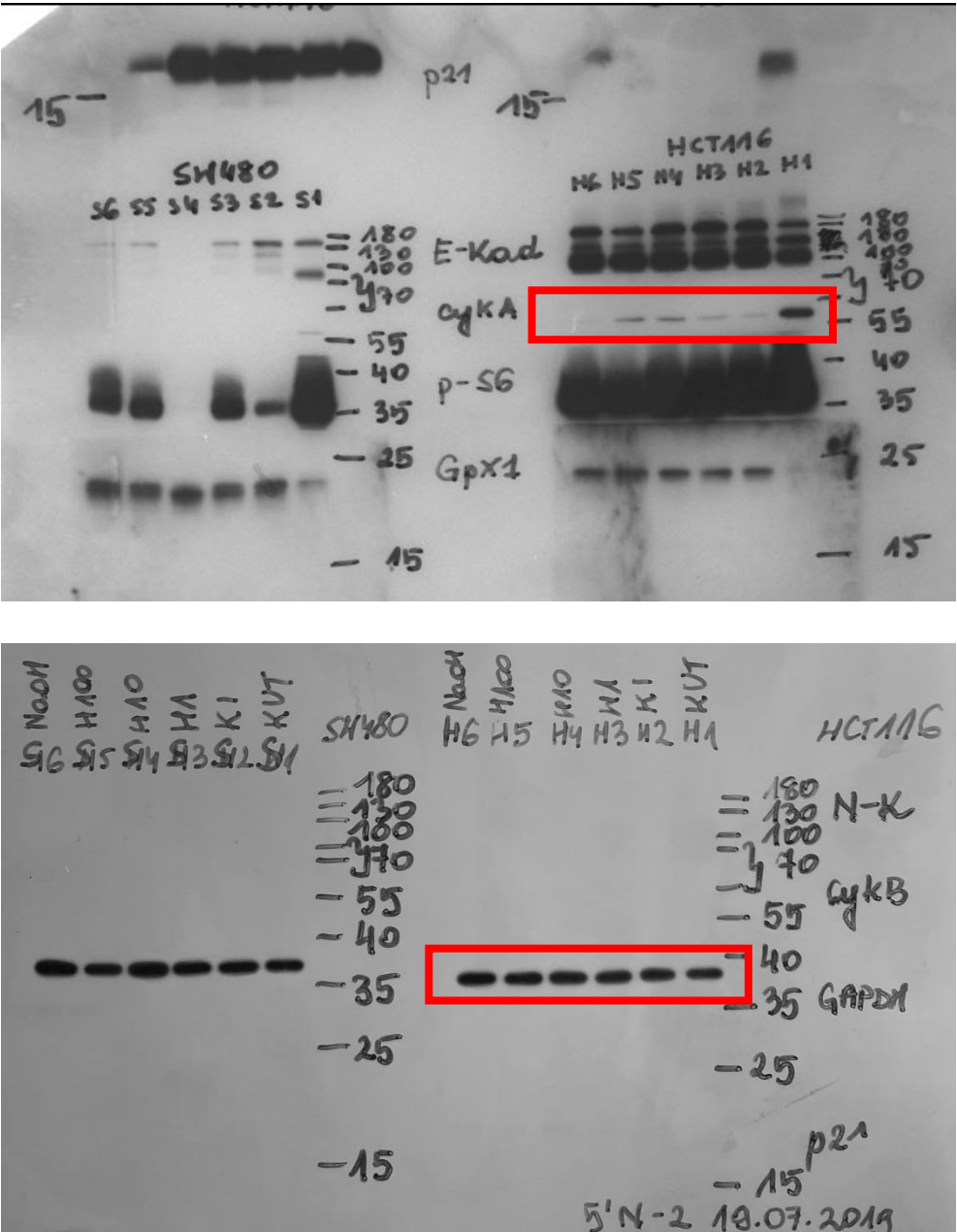
H1 – Untreated Control
H2 – Irinotecan
H3 – Irinotecan + 1 uM Hemin
H4 – Irinotecan + 10 uM Hemin
H5 – Irinotecan + 100 uM Hemin
H6 – Irinotecan + NaOH

Fig. A.II.2



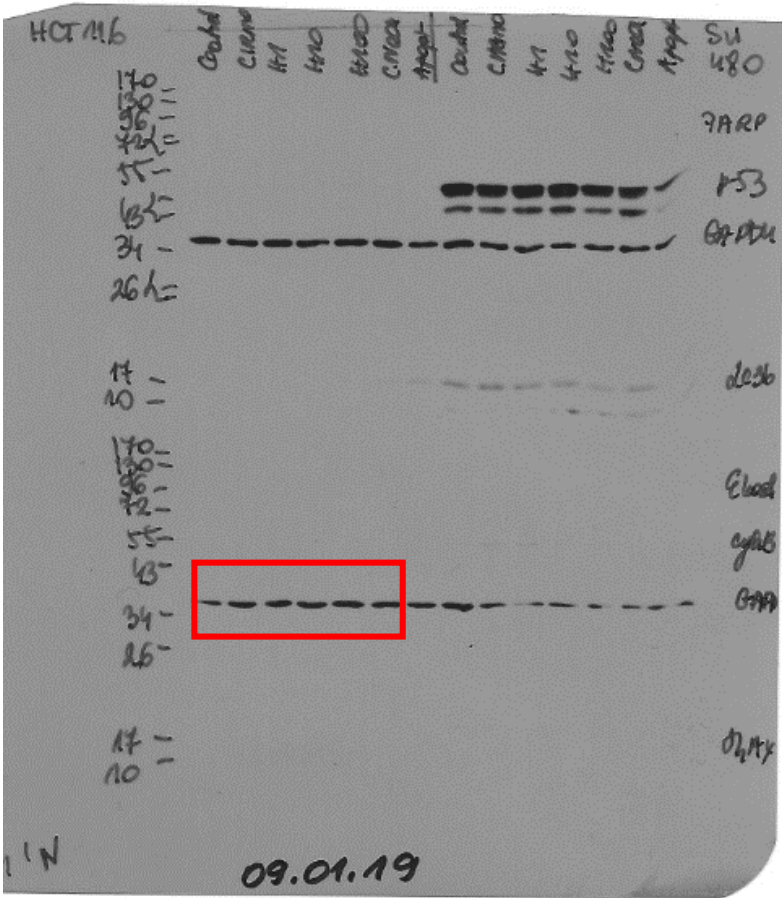
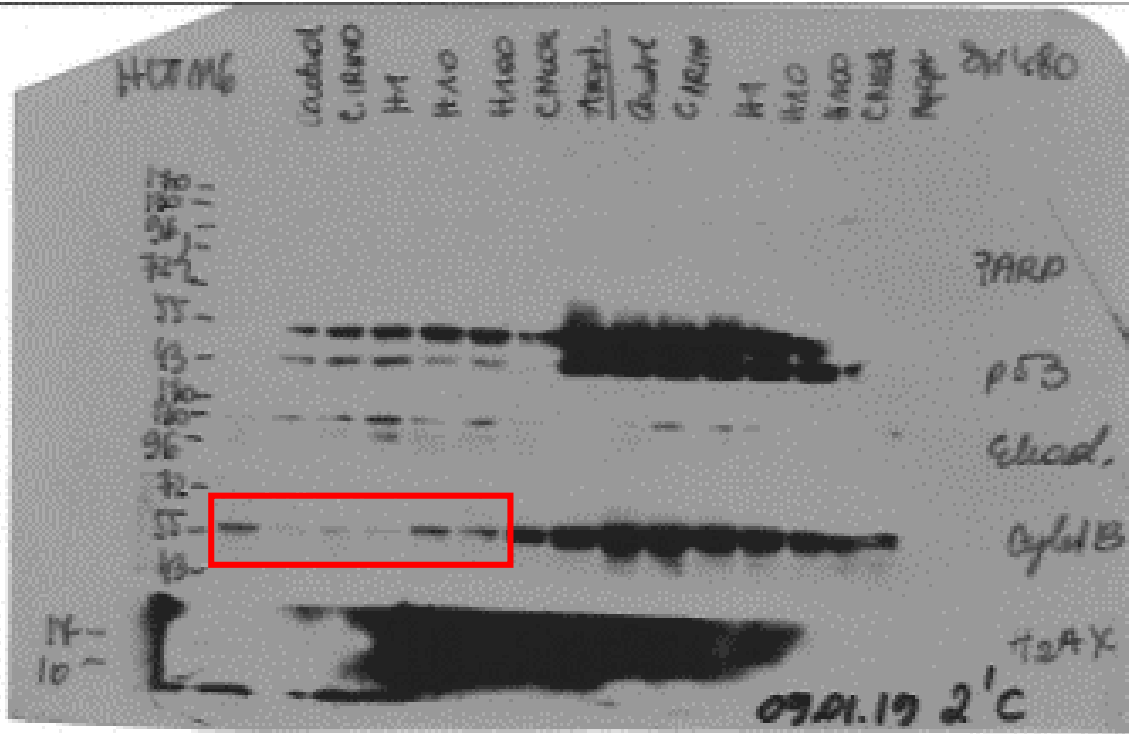
H1 – Untreated Control
H2 – Irinotecan
H3 – Irinotecan + 1 uM Hemin
H4 – Irinotecan + 10 uM Hemin
H5 – Irinotecan + 100 uM Hemin
H6 – Irinotecan + NaOH

Fig. A.II.3



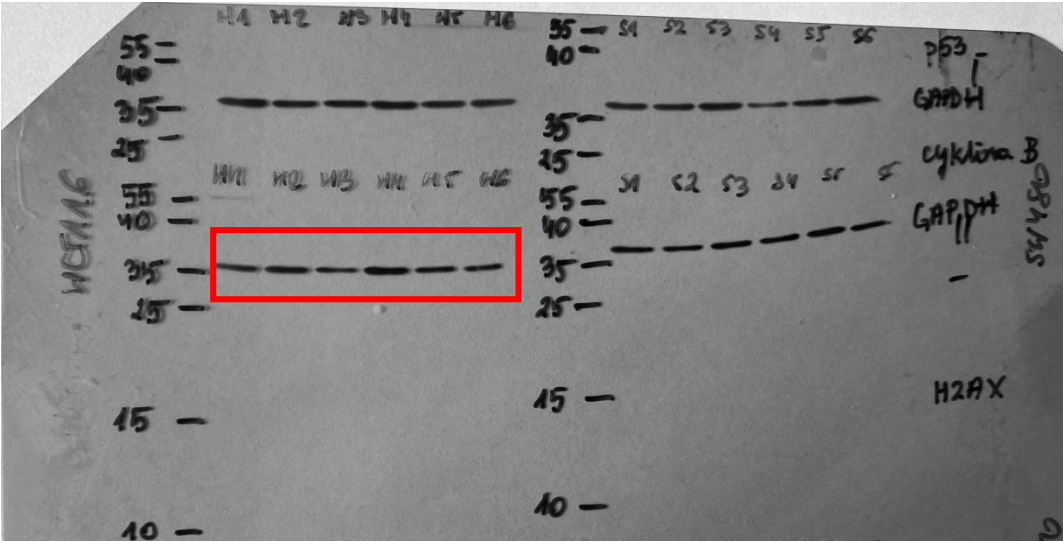
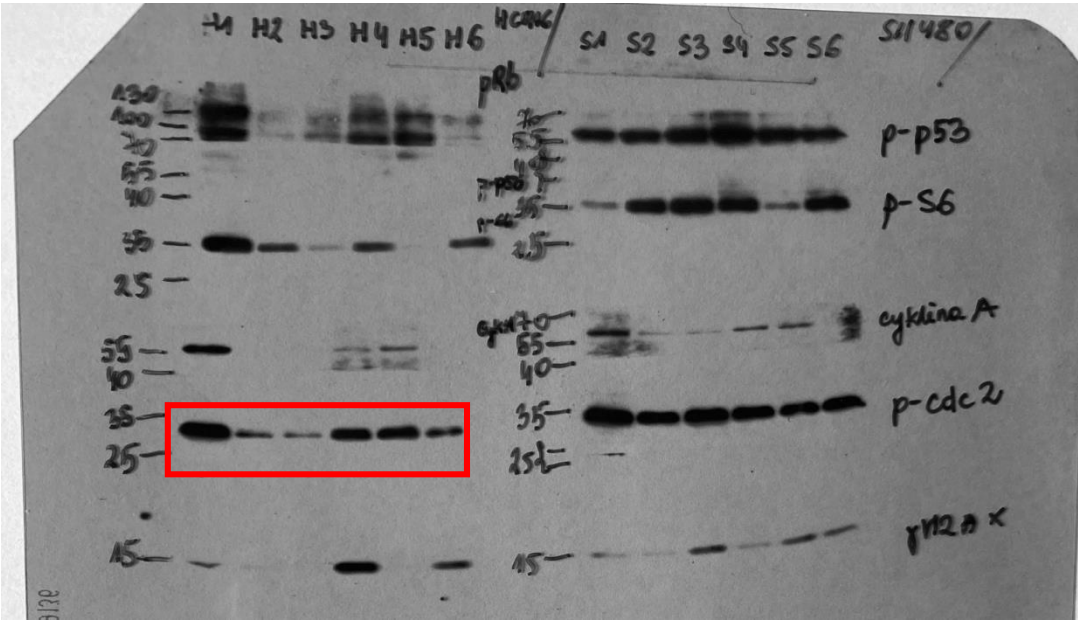
H1 – Untreated Control
H2 – Irinotecan
H3 – Irinotecan + 1 uM Hemin
H4 – Irinotecan + 10 uM Hemin
H5 – Irinotecan + 100 uM Hemin
H6 – Irinotecan + NaOH

Fig. A.II.4



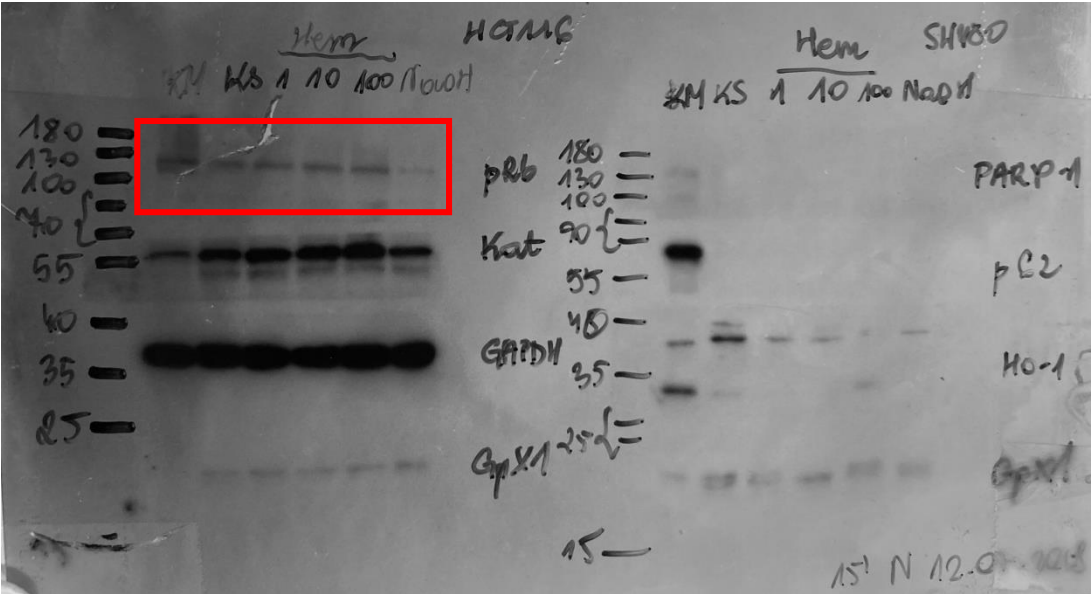
KM – Untreated Control
KS – Irinotecan
1 – Irinotecan + 1 uM Hemin
10 – Irinotecan + 10 uM Hemin
100 – Irinotecan + 100 uM Hemin
NaOH – Irinotecan + NaOH

Fig. A.II.5

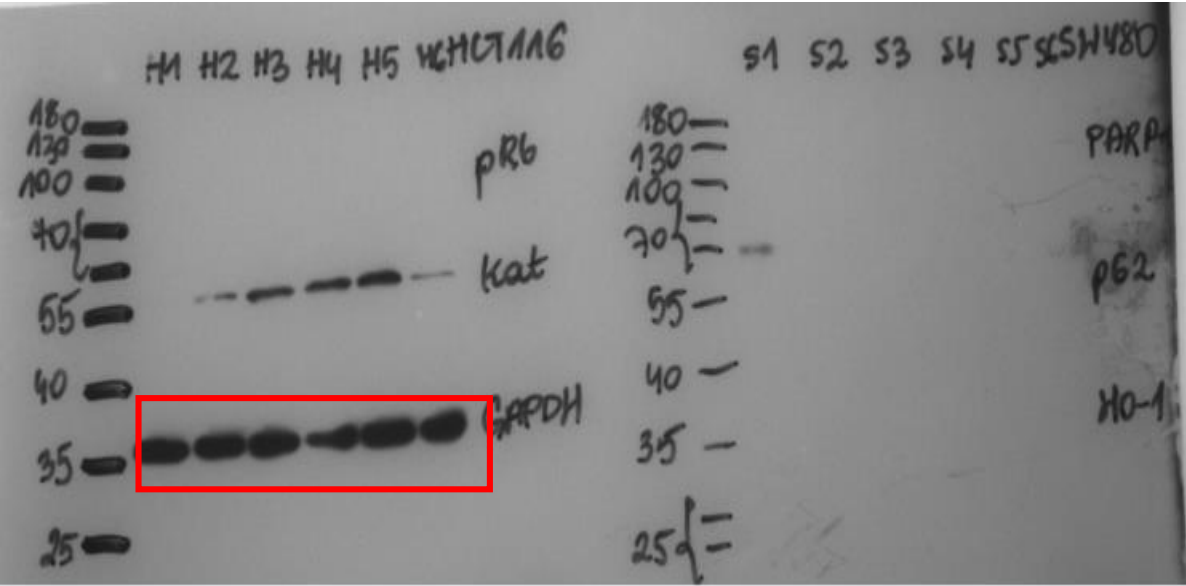


H1 – Untreated Control
H2 – Irinotecan
H3 – Irinotecan + 1 uM Hemin
H4 – Irinotecan + 10 uM Hemin
H5 – Irinotecan + 100 uM Hemin
H6 – Irinotecan + NaOH

Fig. A.II.6

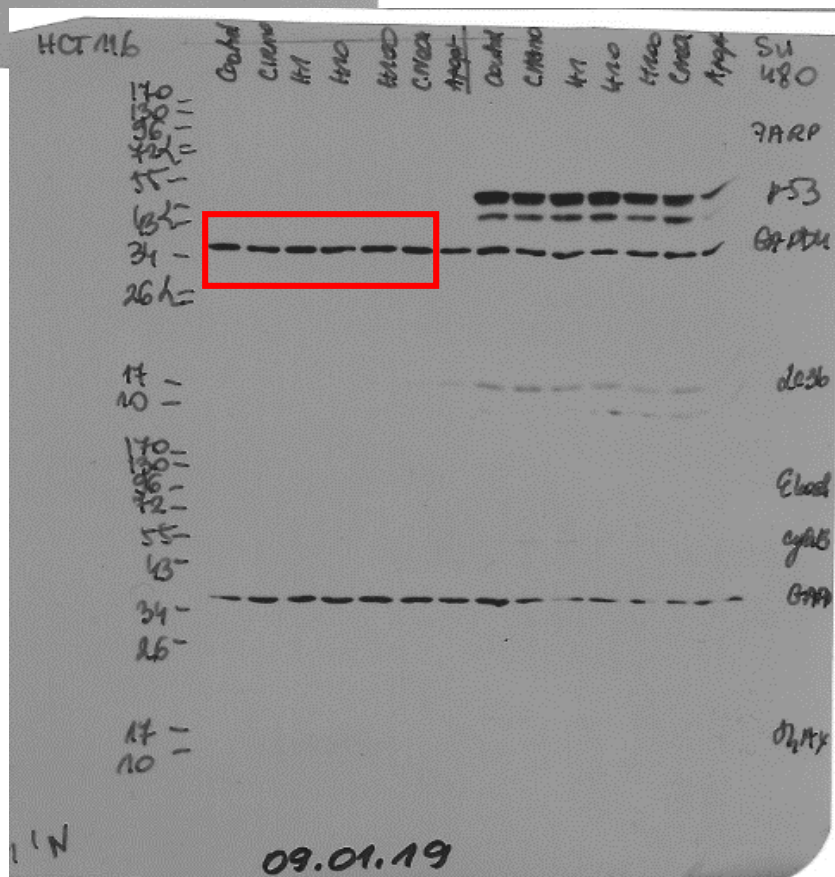
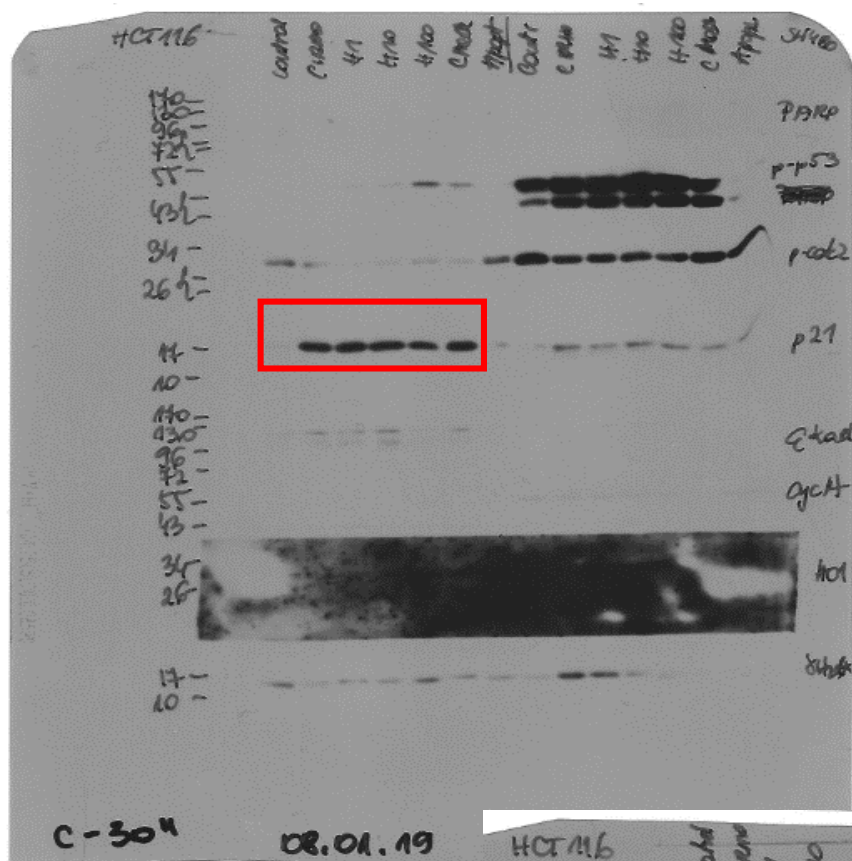


KM – Untreated Control
KS – Irinotecan
1 – Irinotecan + 1 uM Hemin
10 – Irinotecan + 10 uM Hemin
100 – Irinotecan + 100 uM Hemin
NaOH – Irinotecan + NaOH



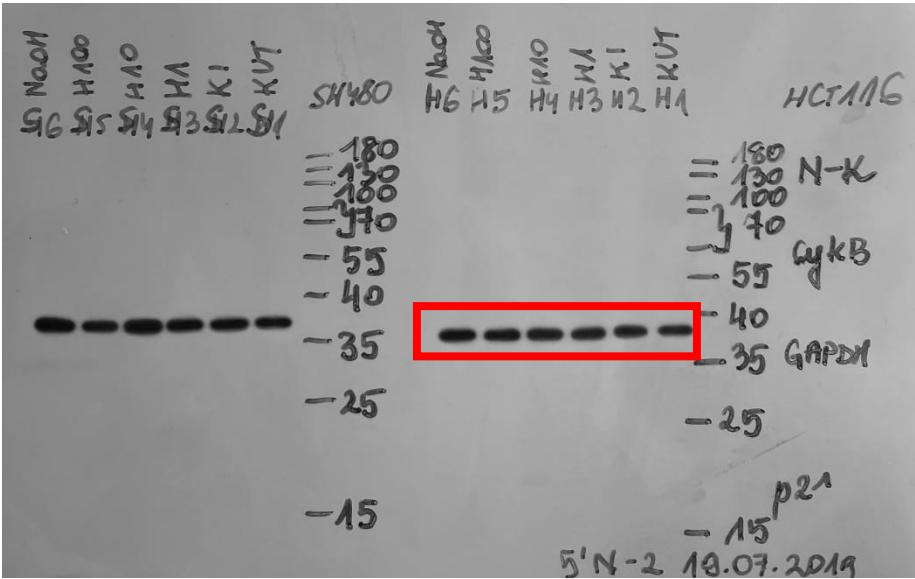
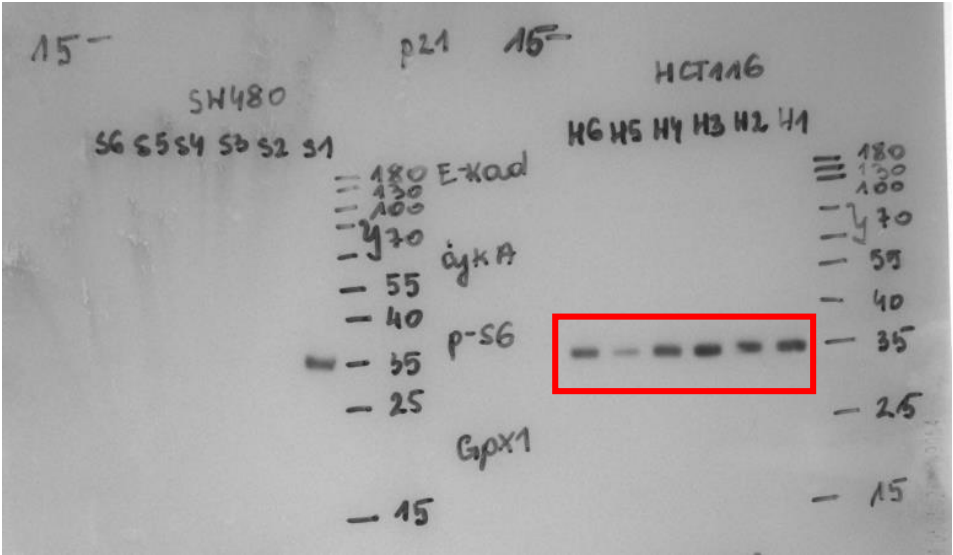
H1 – Untreated Control
H2 – Irinotecan
H3 – Irinotecan + 1 uM Hemin
H4 – Irinotecan + 10 uM Hemin
H5 – Irinotecan + 100 uM Hemin
H6 – Irinotecan + NaOH

Fig. A.II.7



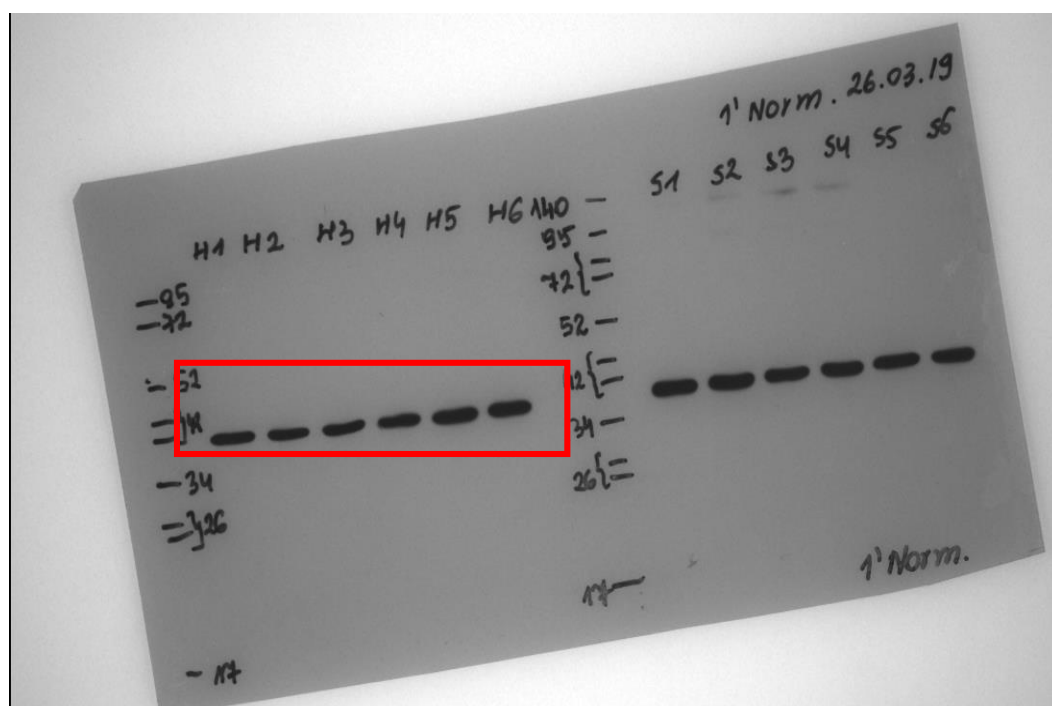
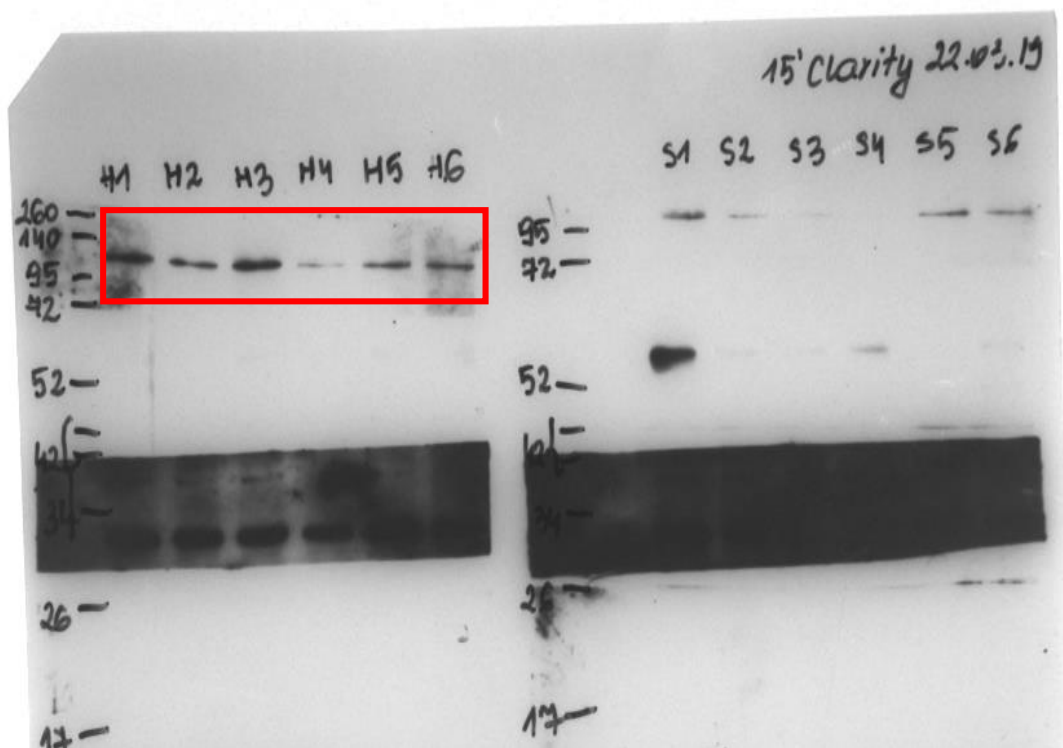
control – Untreated Control
 C IRINO – Irinotecan
 H1 – Irinotecan + 1 uM Hemin
 H10 – Irinotecan + 10 uM Hemin
 H100 – Irinotecan + 100 uM Hemin
 NaOH – Irinotecan + NaOH

Fig. A.II.8



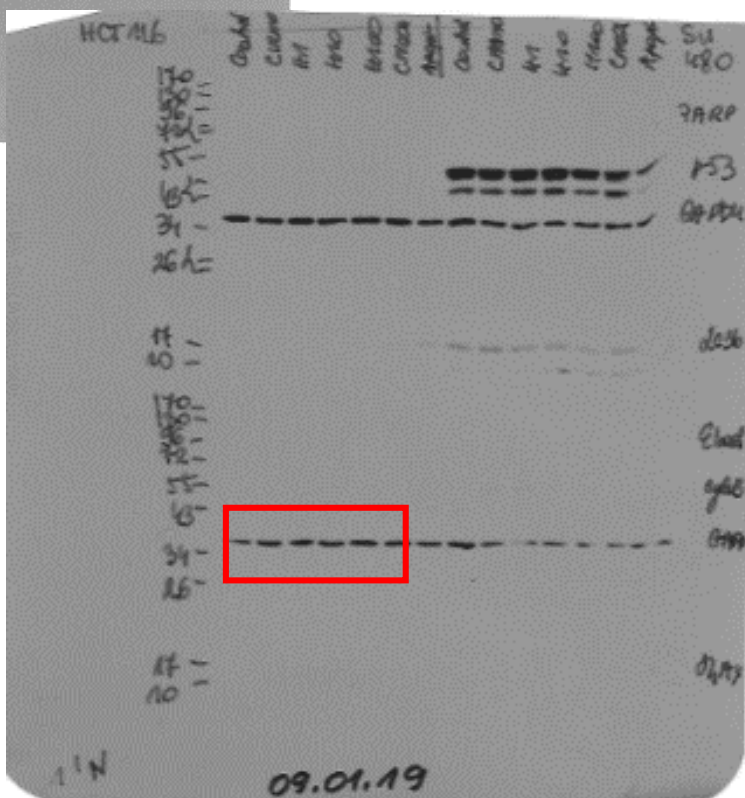
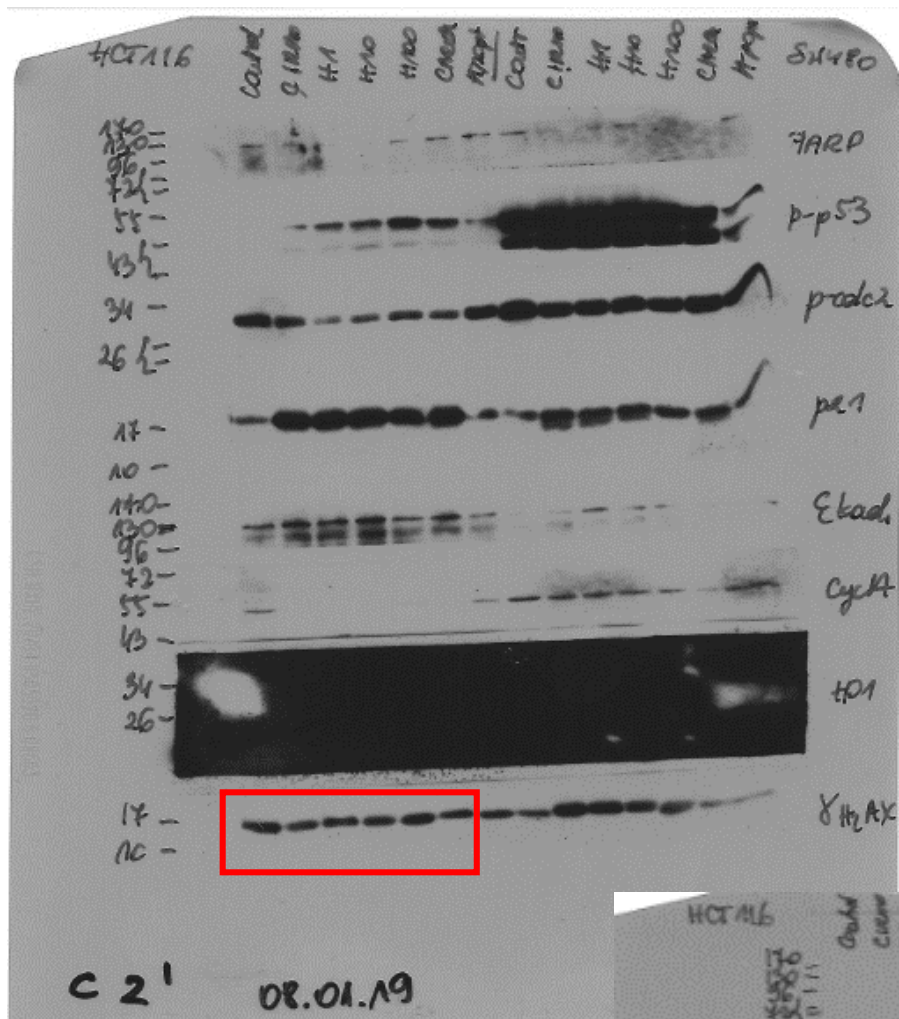
- H1 – Untreated Control
- H2 – Irinotecan
- H3 – Irinotecan + 1 uM Hemin
- H4 – Irinotecan + 10 uM Hemin
- H5 – Irinotecan + 100 uM Hemin
- H6 – Irinotecan + NaOH

Fig. A.II.9



H1 – Untreated Control
H2 – Irinotecan
H3 – Irinotecan + 1 μ M Hemin
H4 – Irinotecan + 10 μ M Hemin
H5 – Irinotecan + 100 μ M Hemin
H6 – Irinotecan + NaOH

Fig. A.II.10



control – Untreated Control
C IRINO – Irinotecan
H1 – Irinotecan + 1 uM Hemin
H10 – Irinotecan + 10 uM Hemin
H100 – Irinotecan + 100 uM Hemin
NaOH – Irinotecan + NaOH

Fig. A.II.11

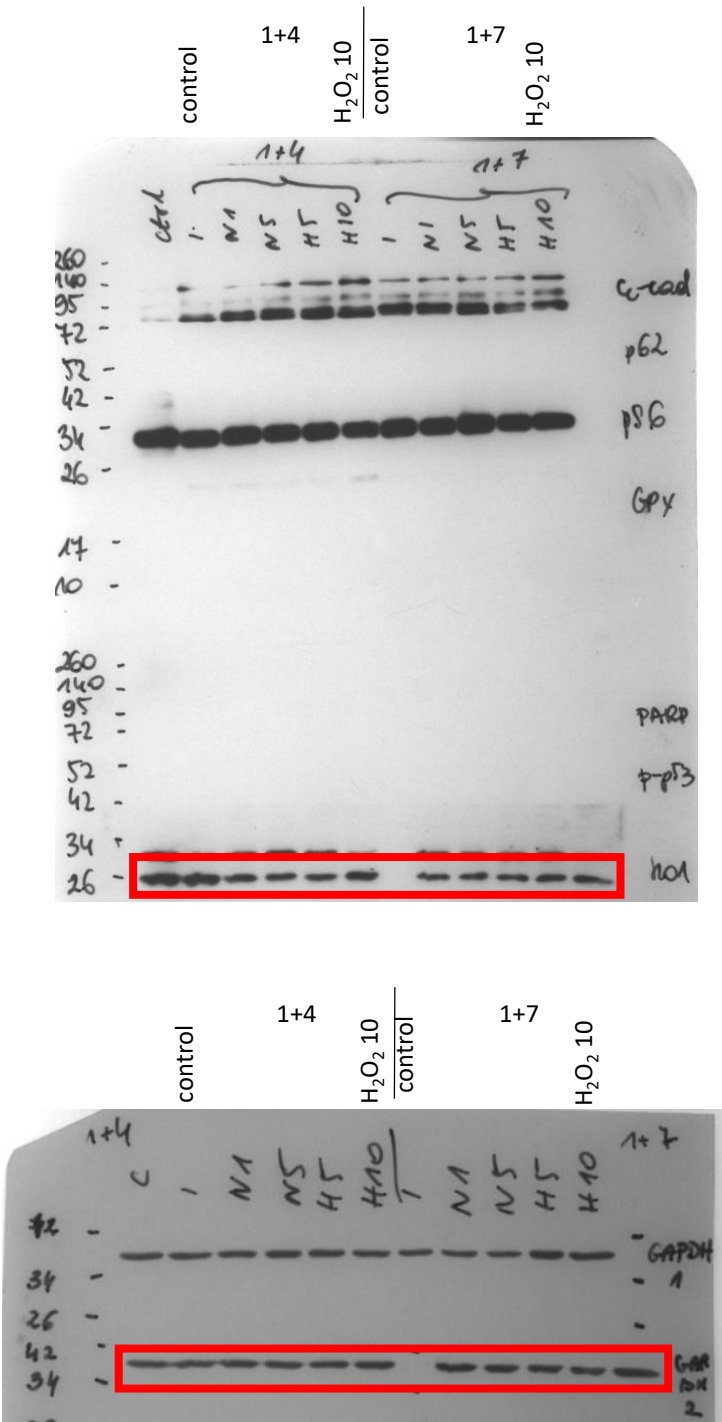


Fig. A.II.12

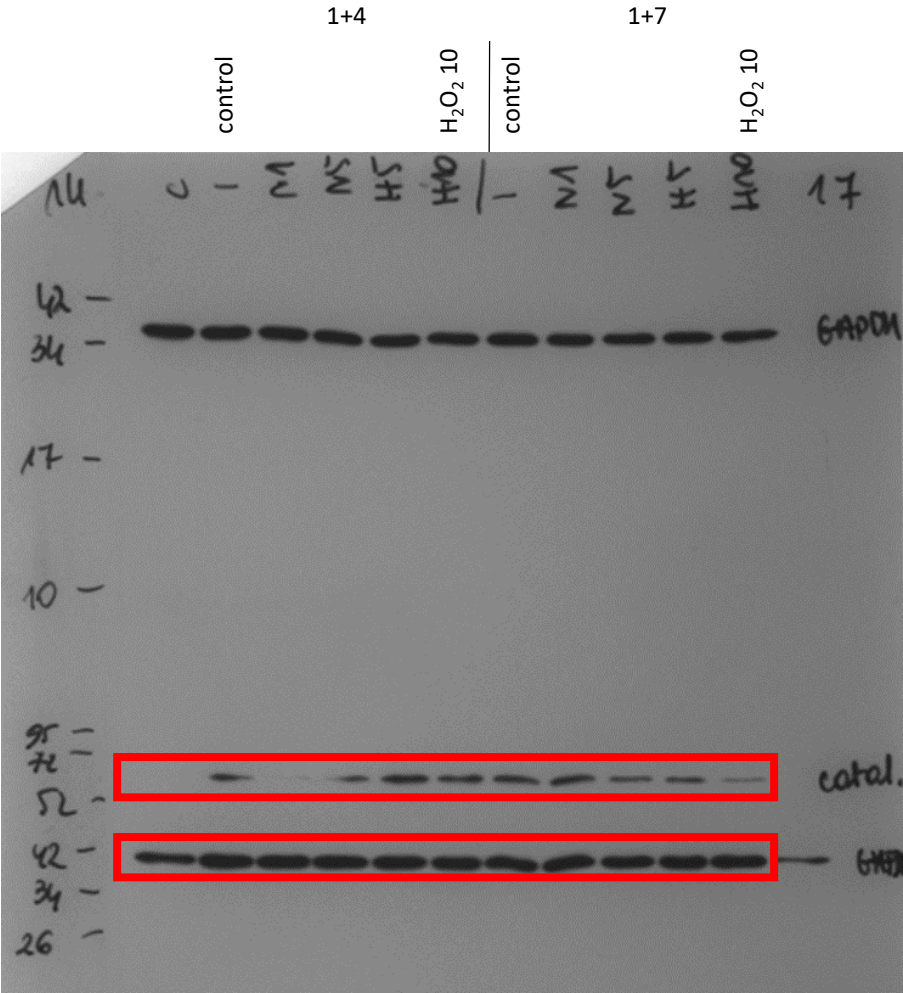


Fig. A.II.13

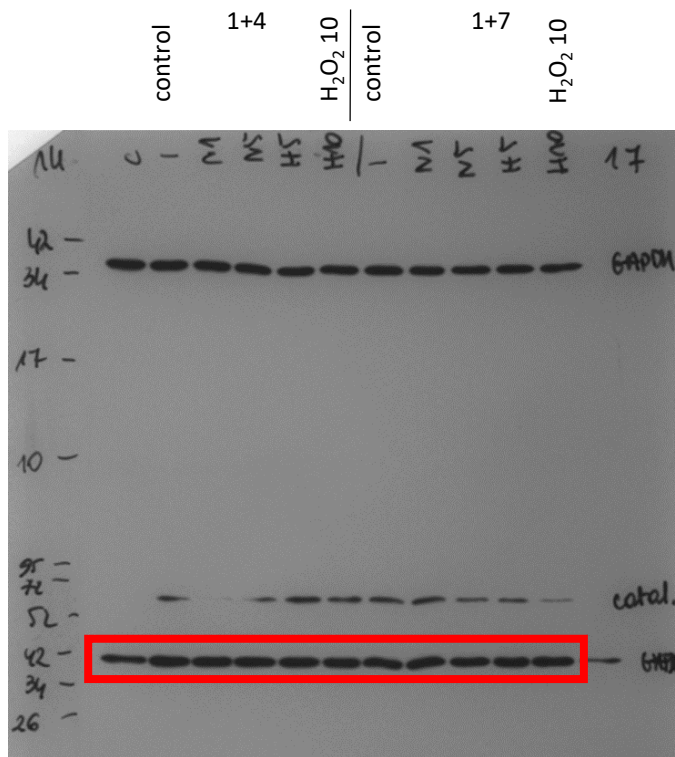
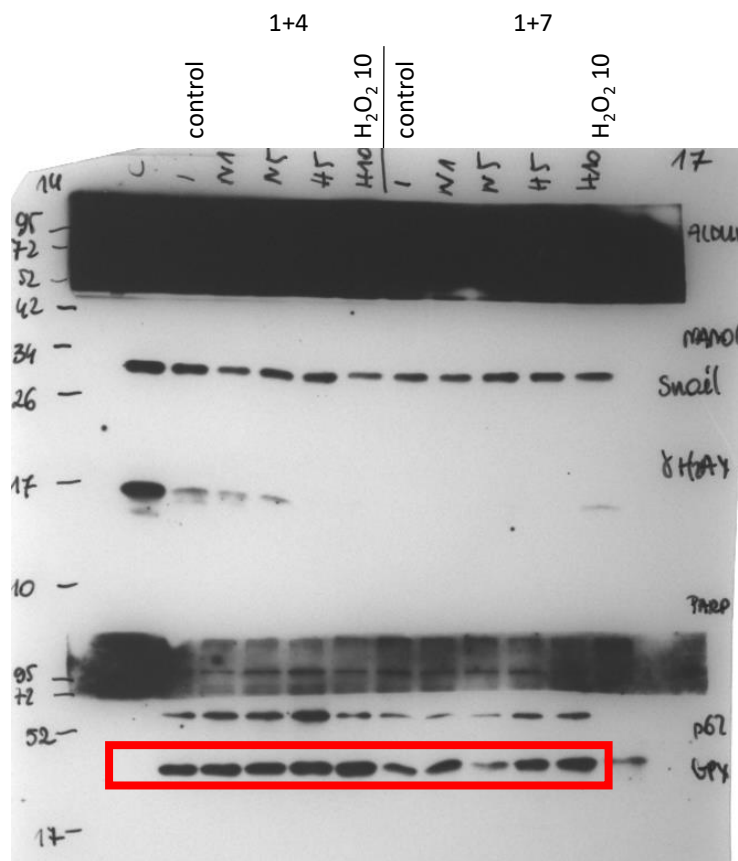


Fig. A.II.14

cyclin A

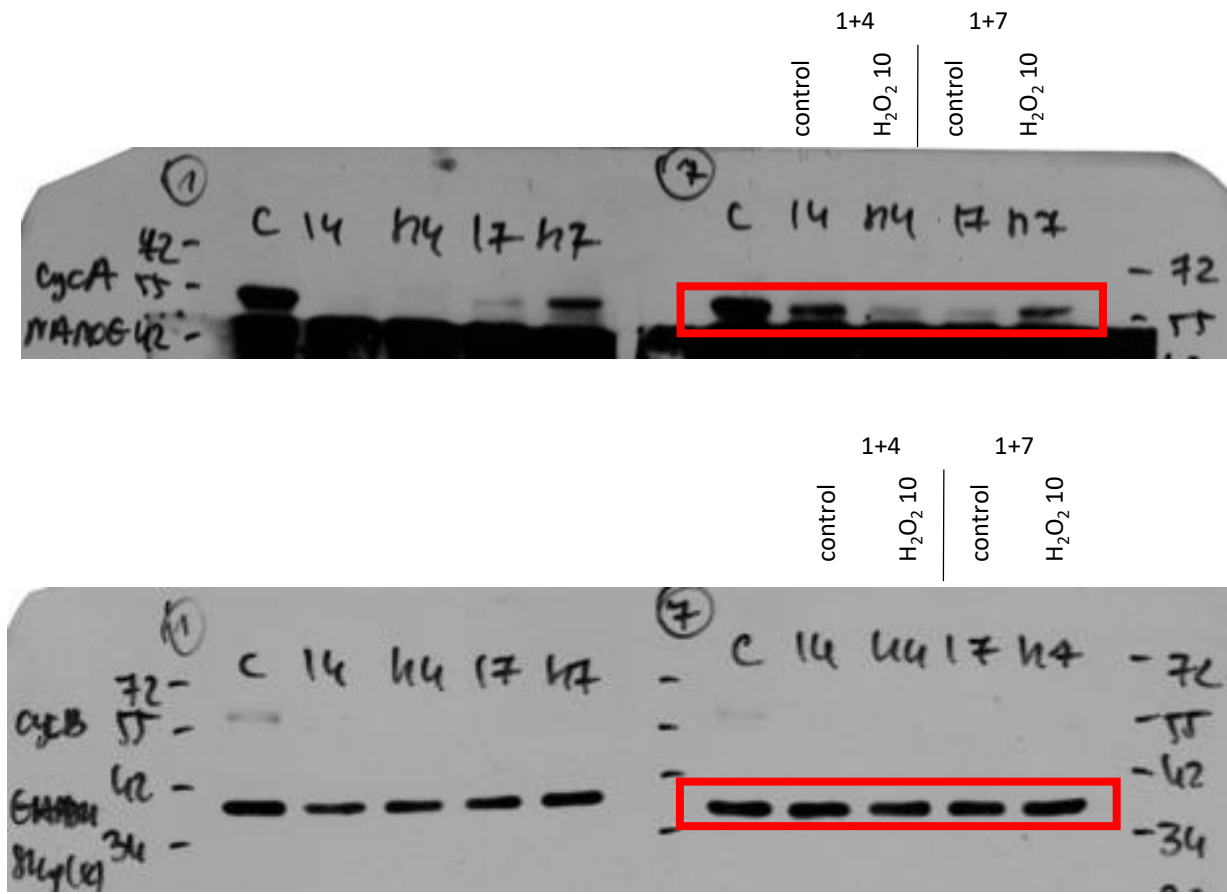


Fig. A.II.15

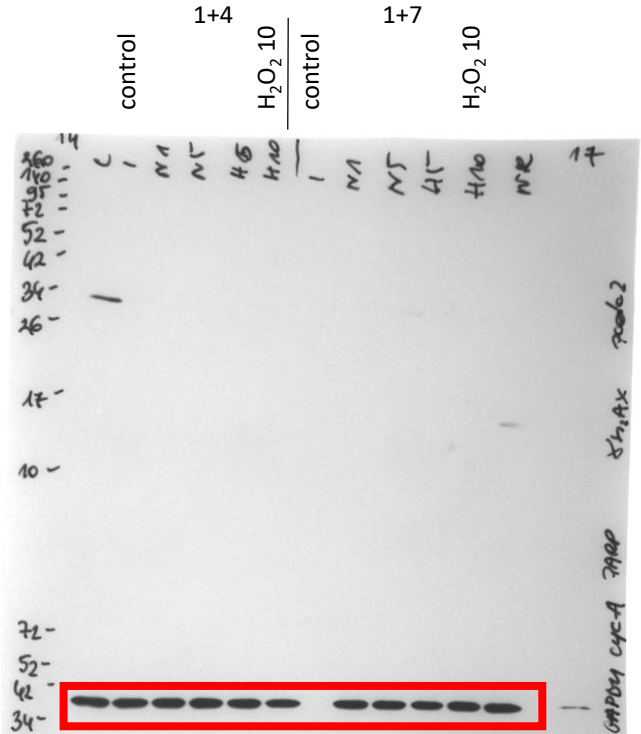
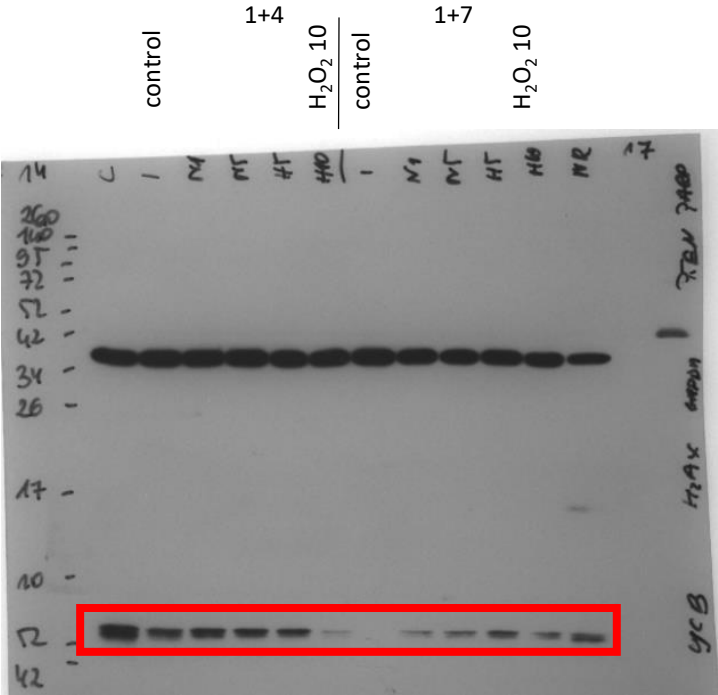


Fig. A.II.16

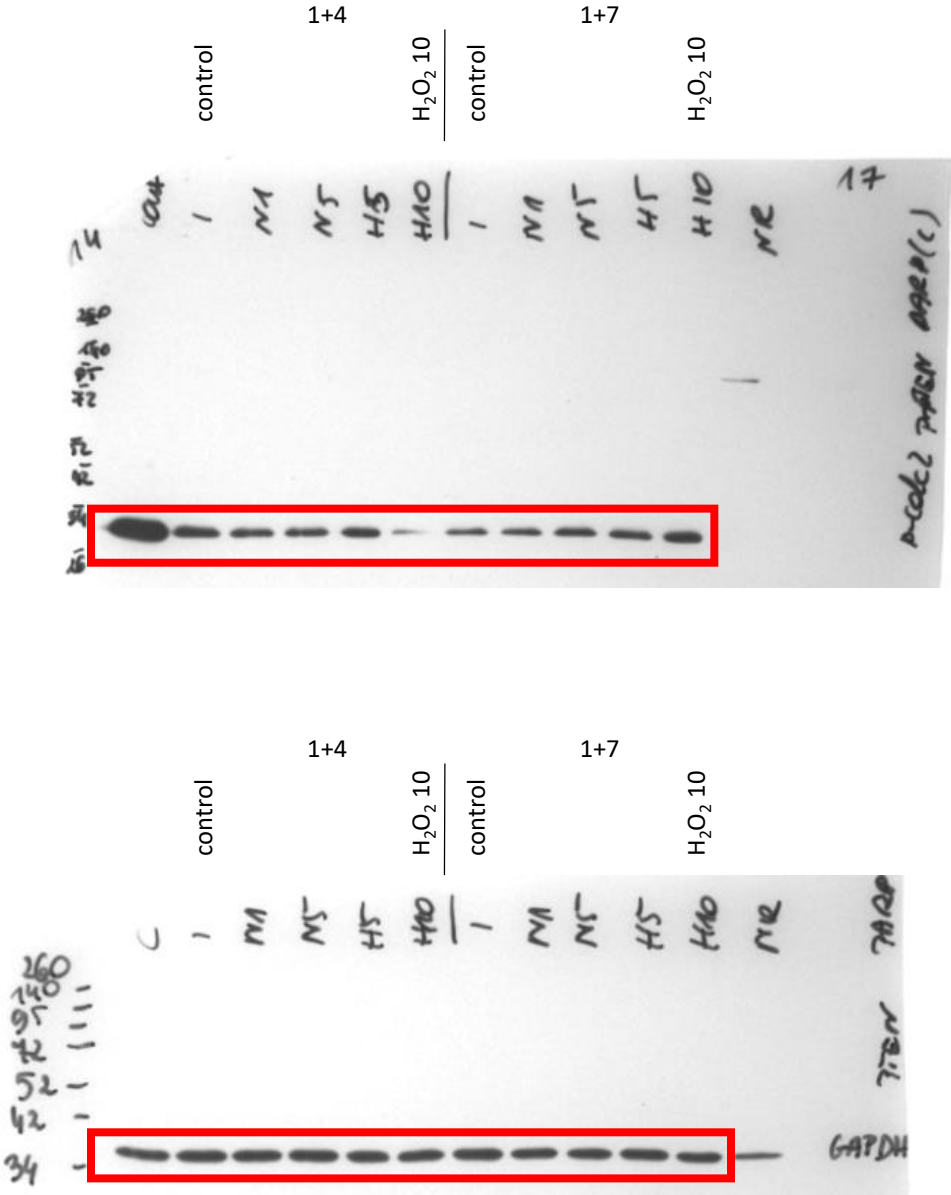


Fig. A.II.17

p-Rb

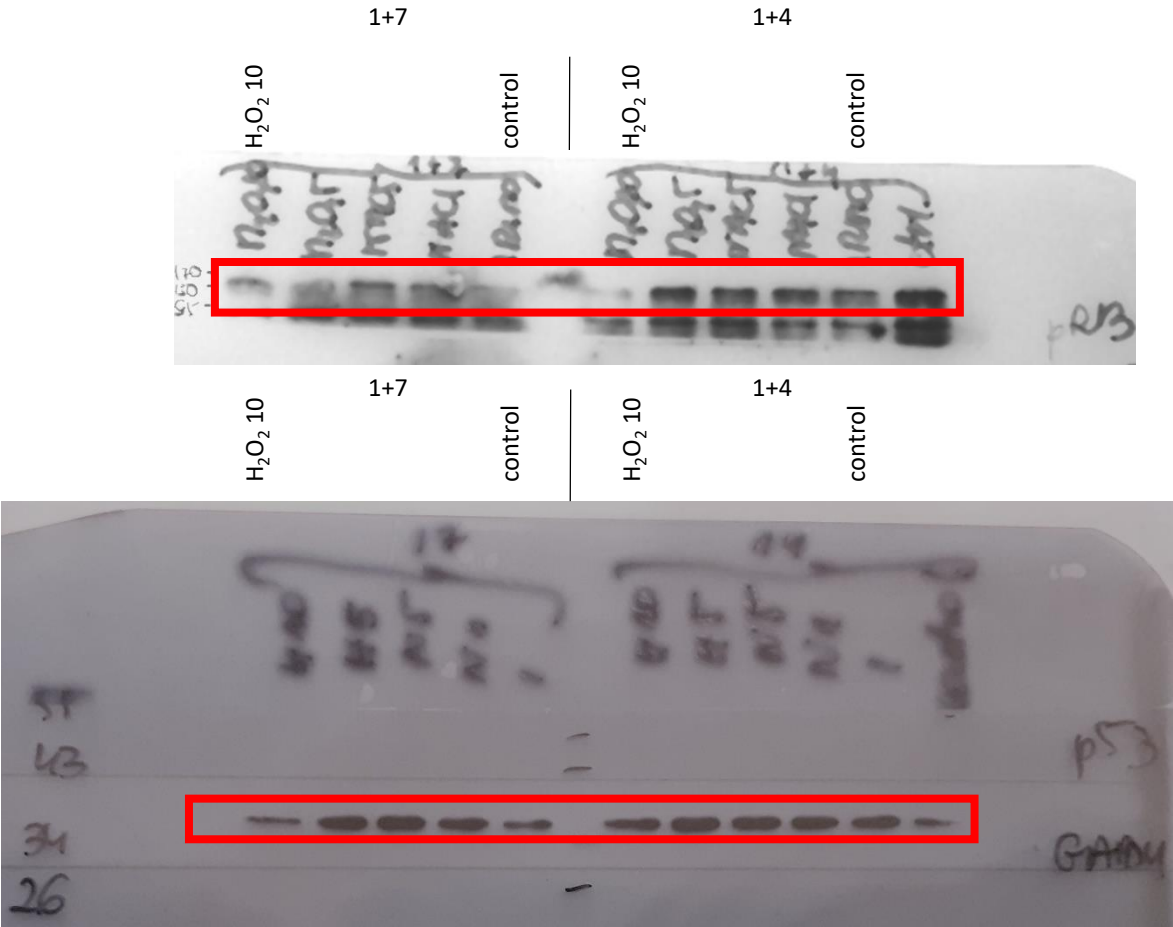


Fig. A.II.18

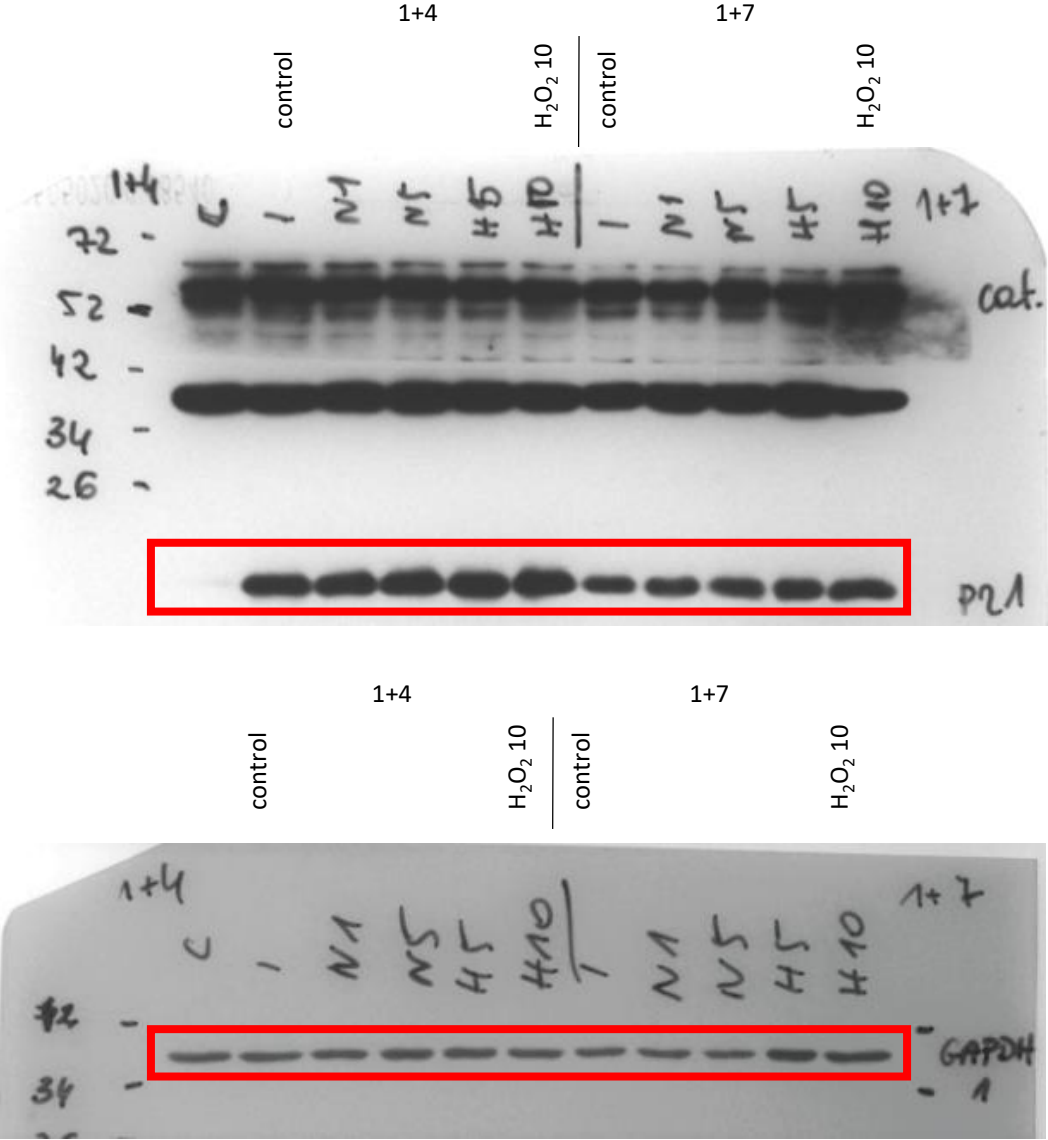


Fig. A.II.19

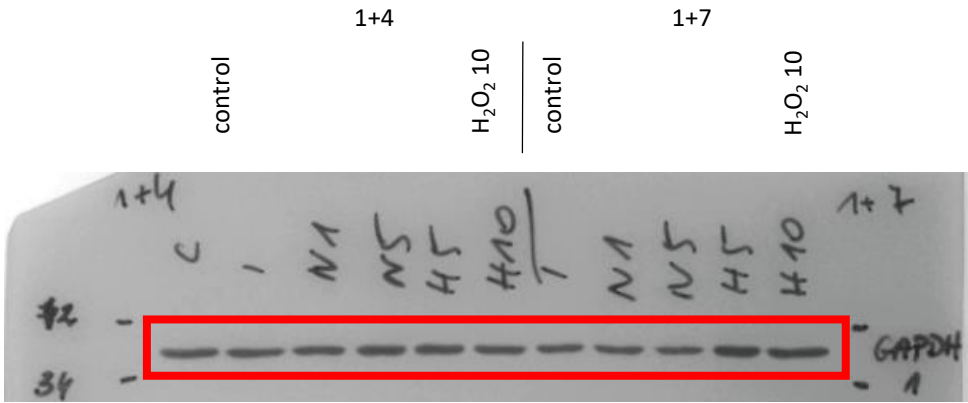
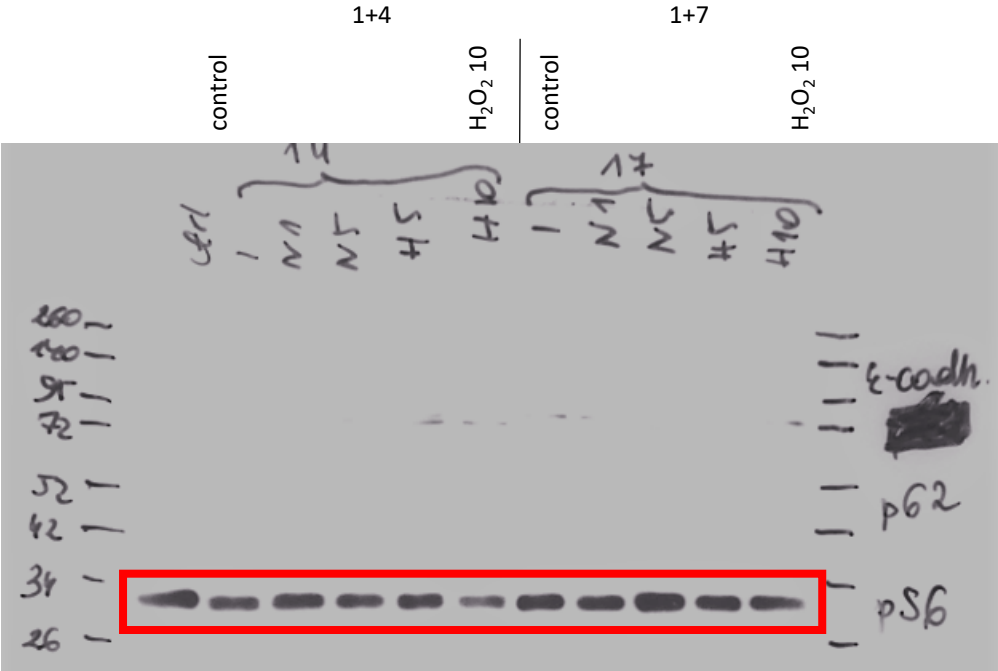


Fig. A.II.20

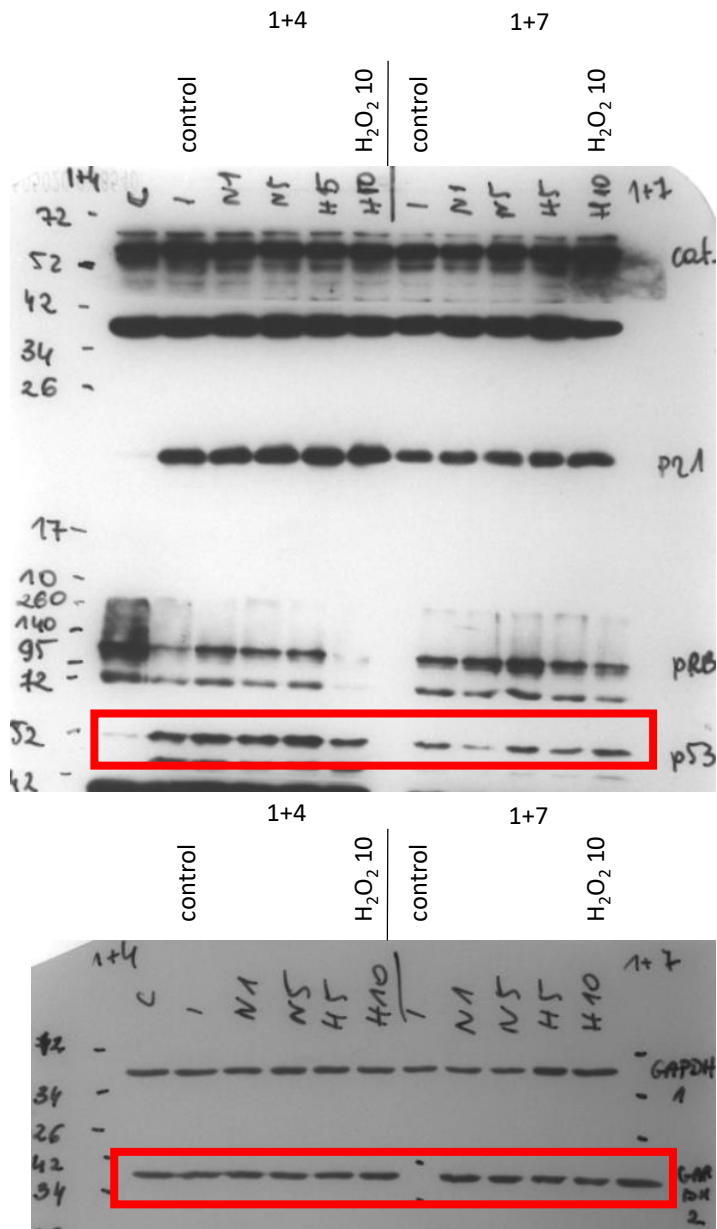


Fig. A.II.21

E-cadherin

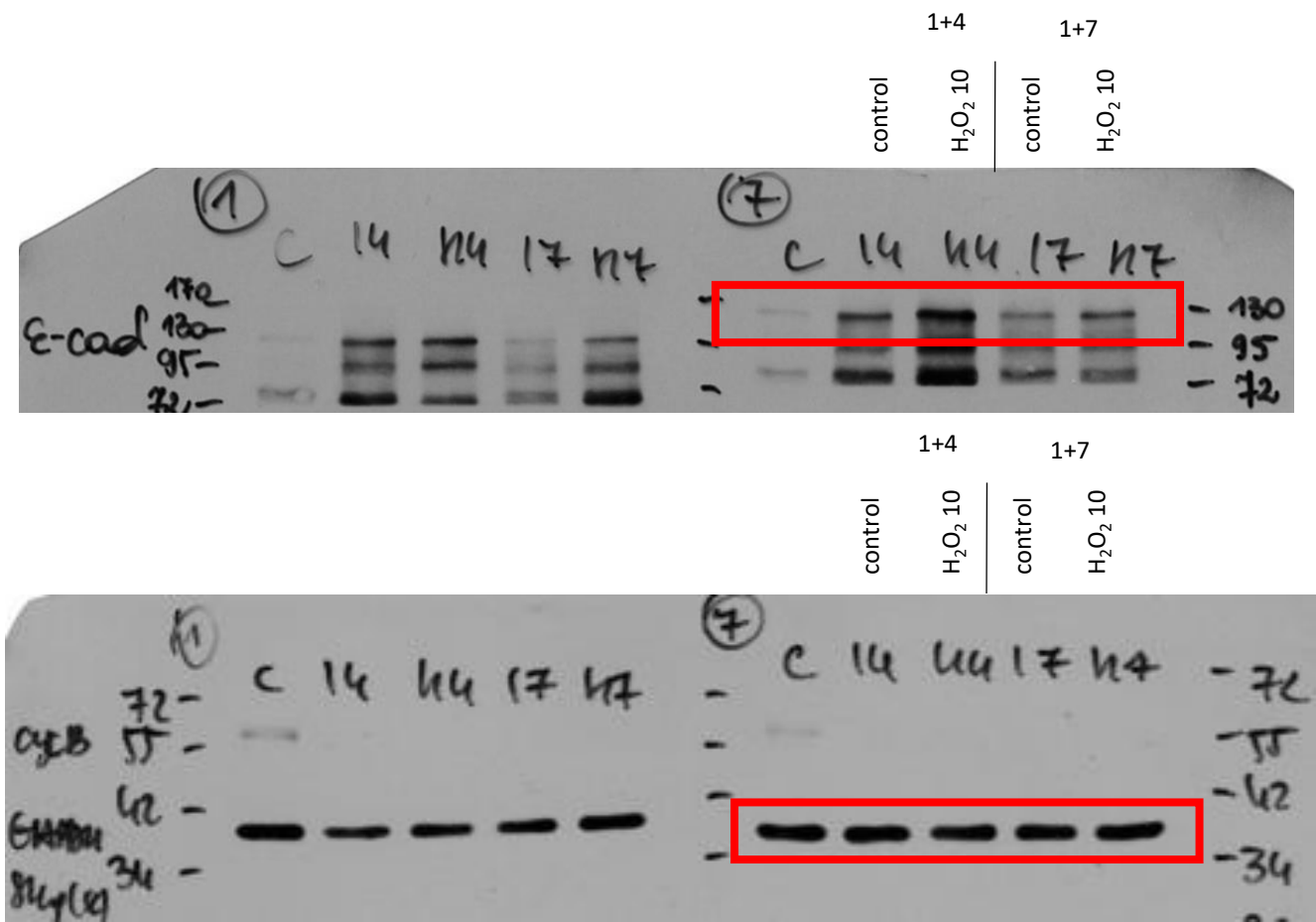


Fig. A.II.22

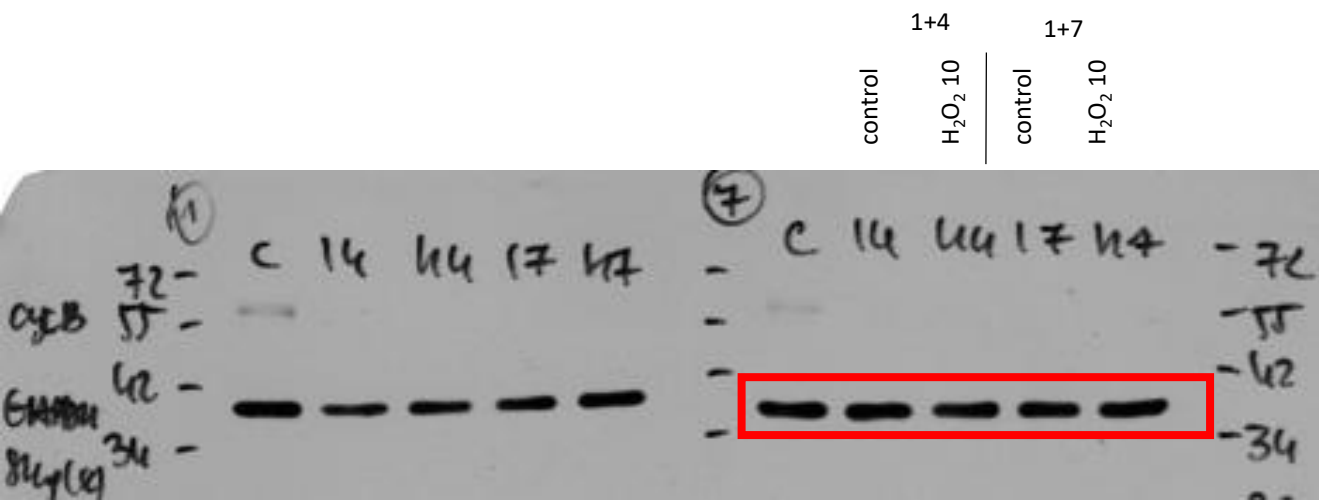
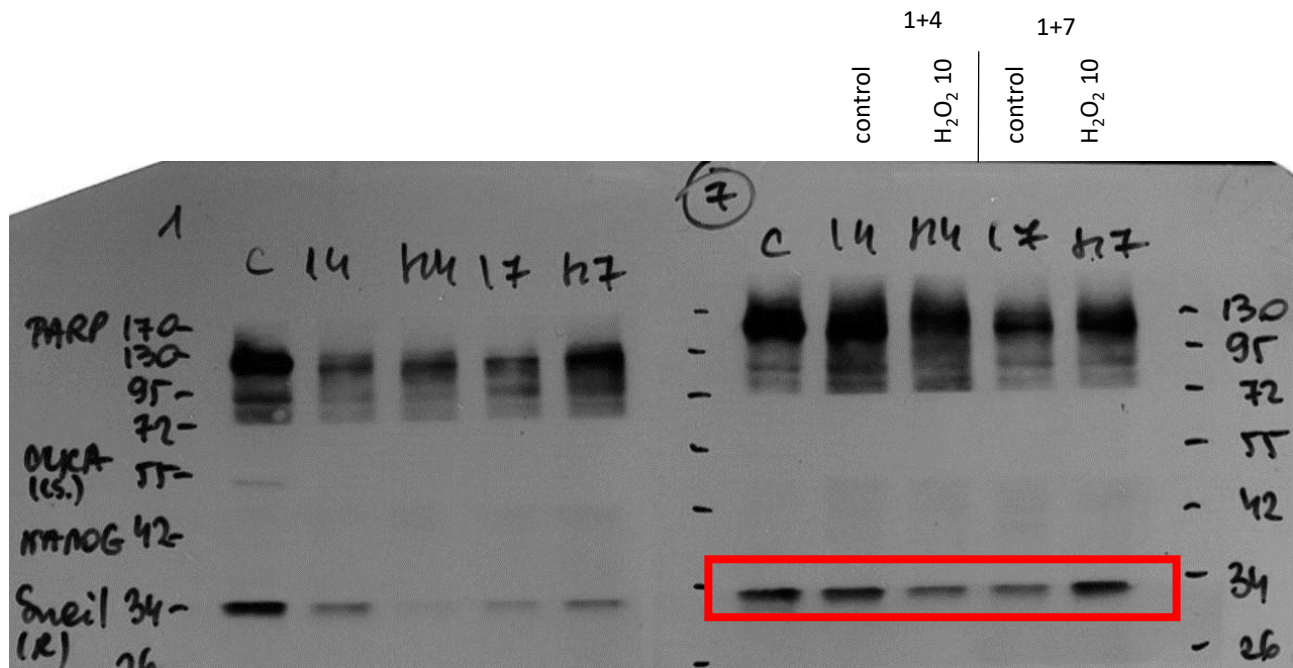
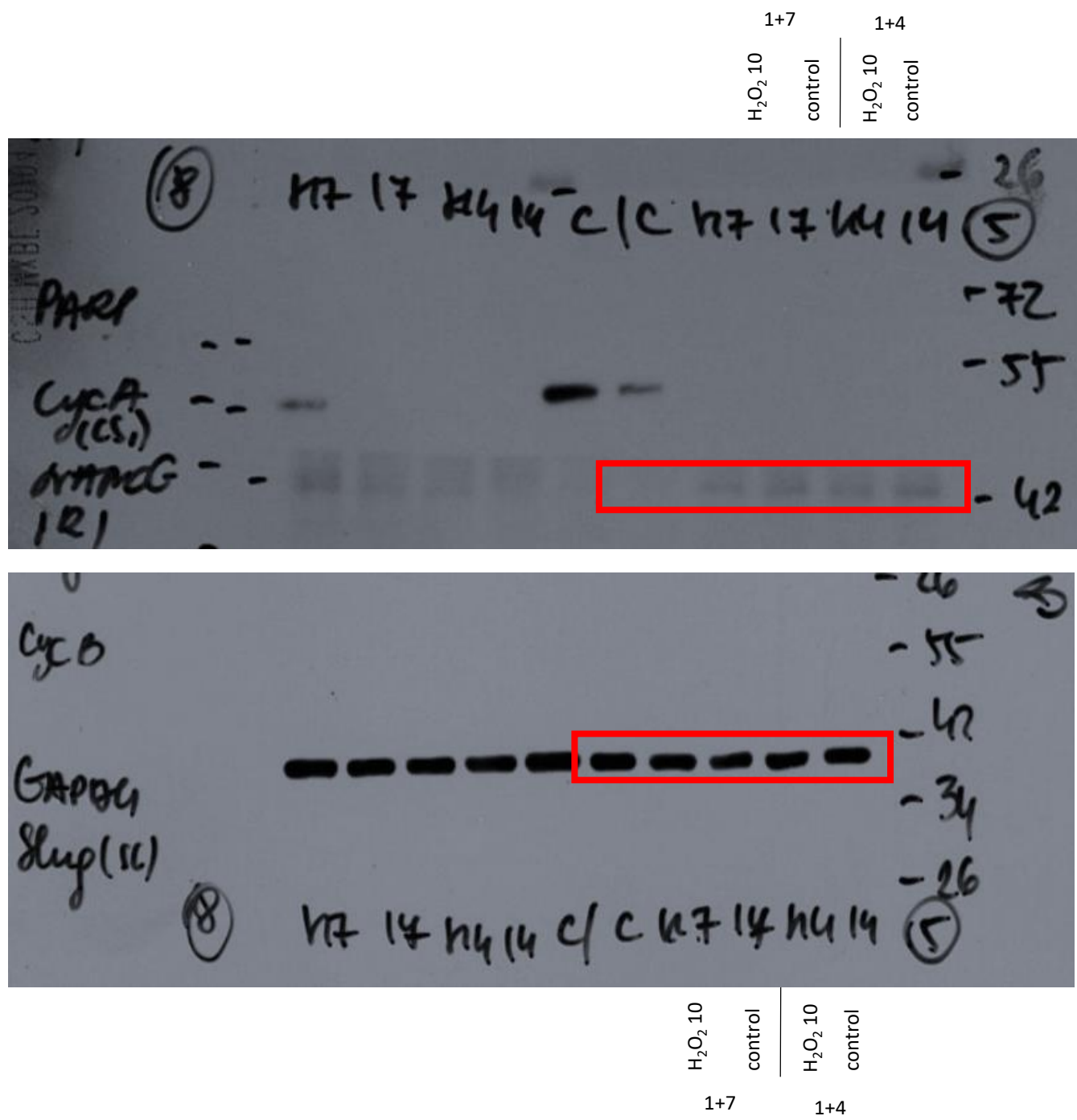


Fig. A.II.23



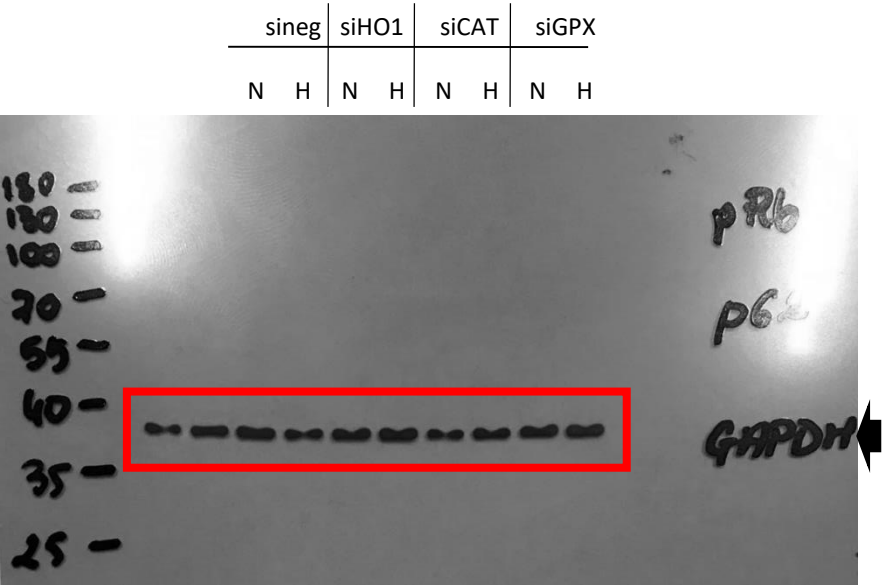
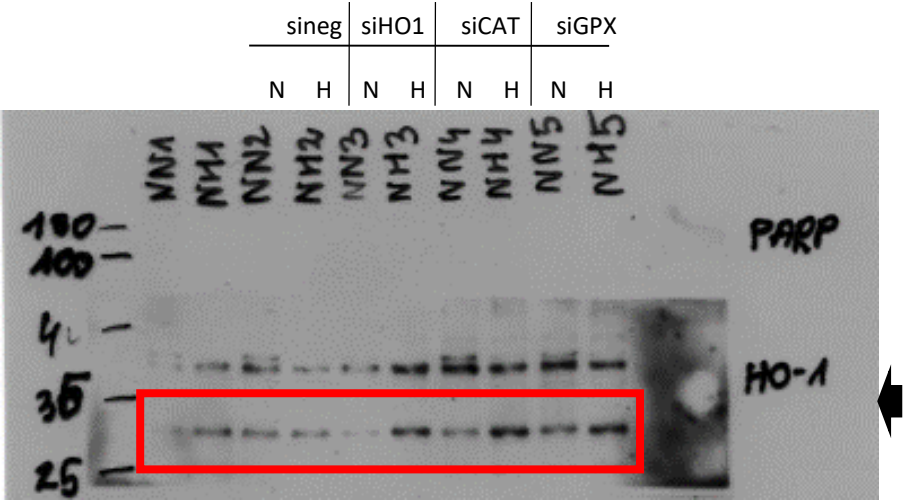


Fig. A.II.25

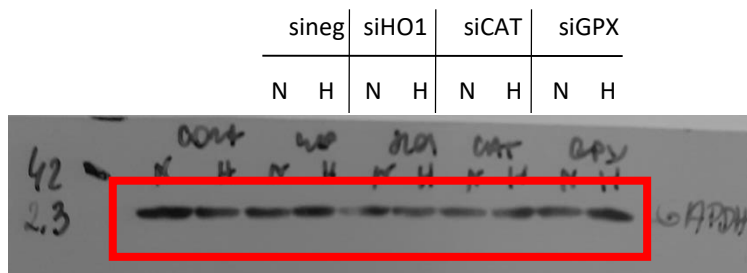


Fig. A.II.26

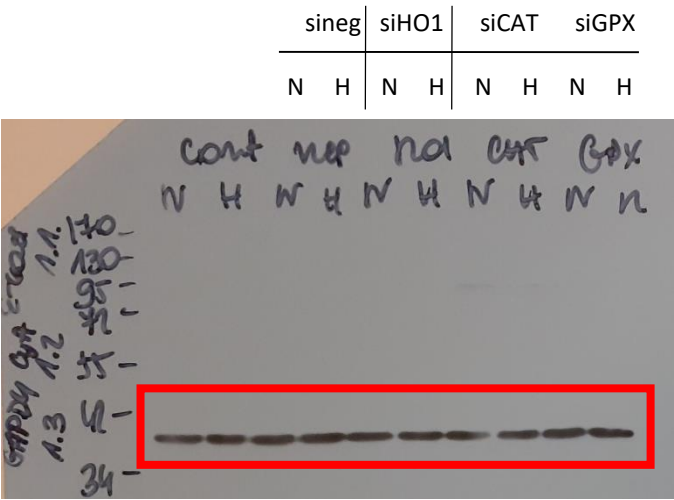
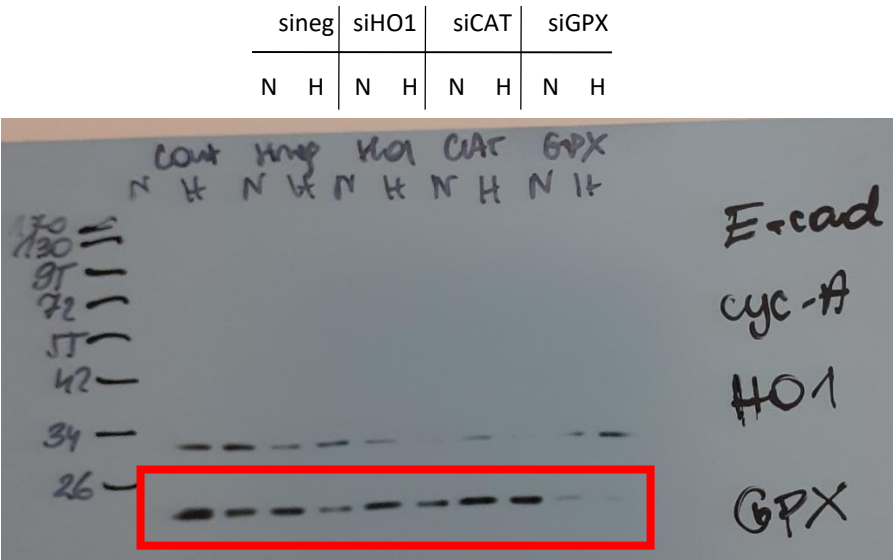


Fig. A.II.27

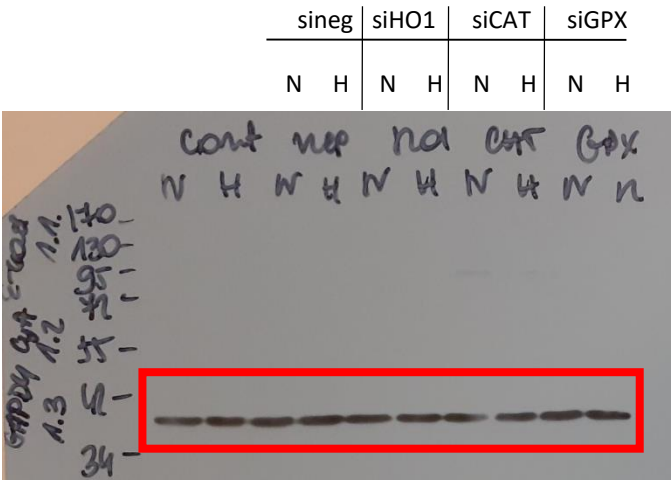
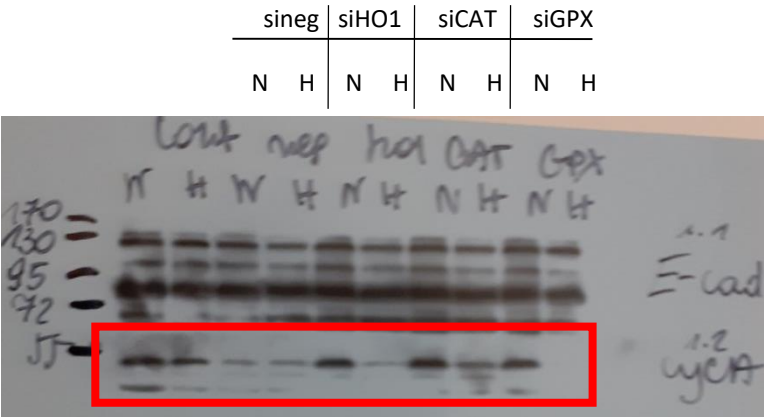
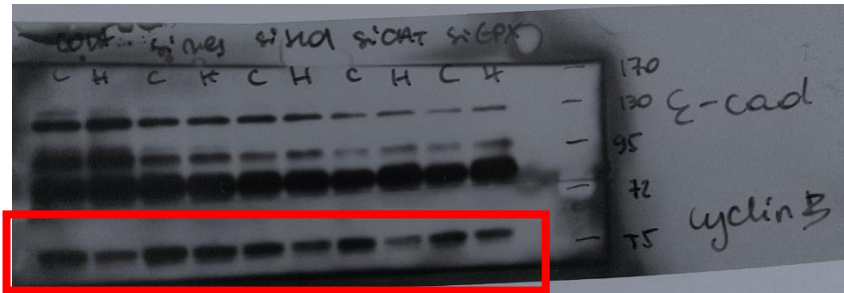


Fig. A.II.28

cyclin B

sineg		siHO1		siCAT		siGPX	
N	H	N	H	N	H	N	H



sineg		siHO1		siCAT		siGPX	
N	H	N	H	N	H	N	H

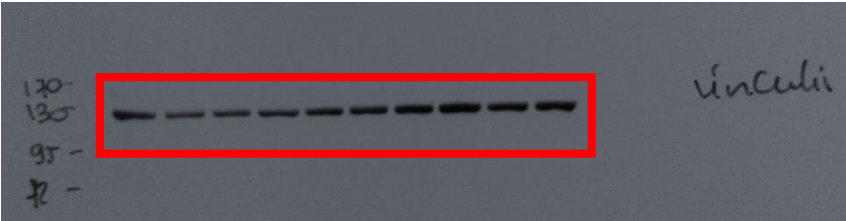


Fig. A.II.29

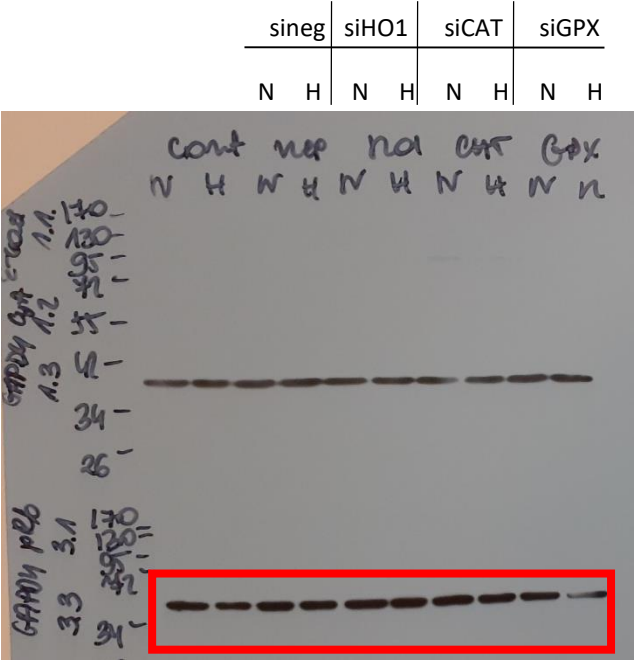
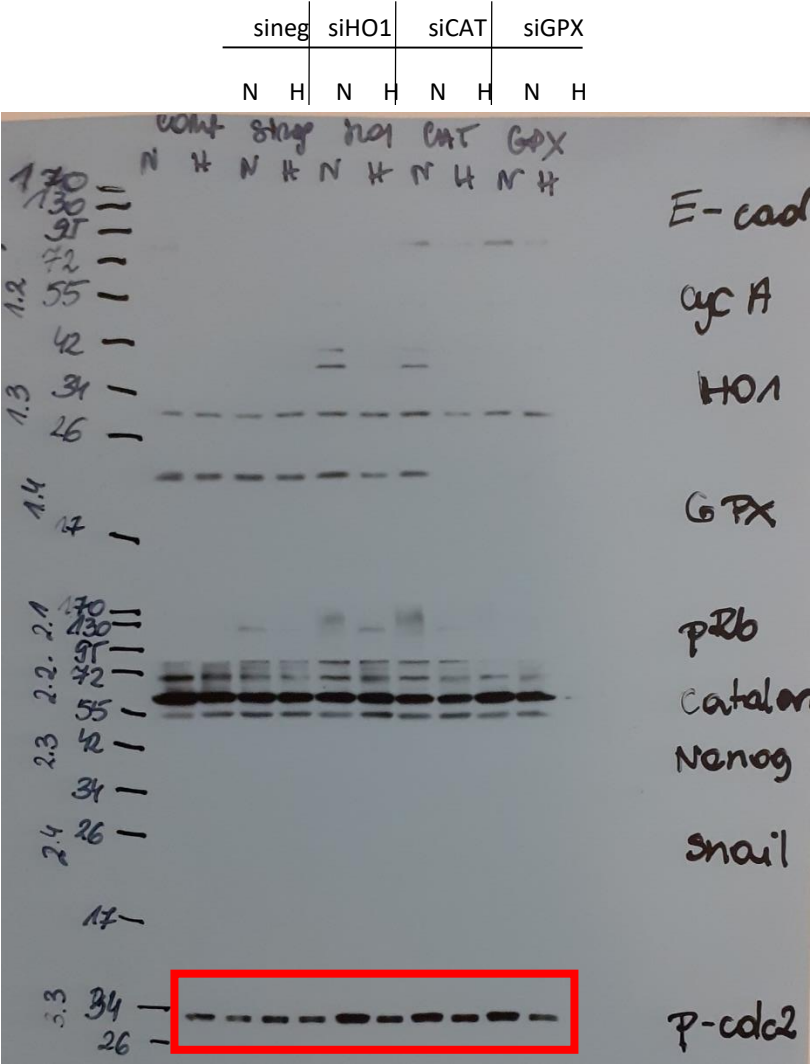


Fig. A.II.30

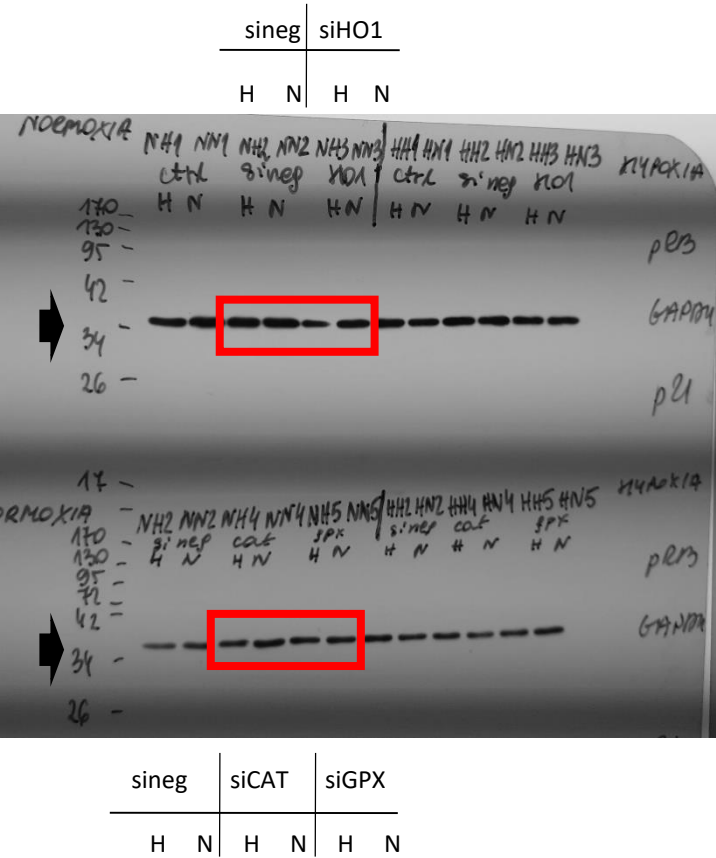
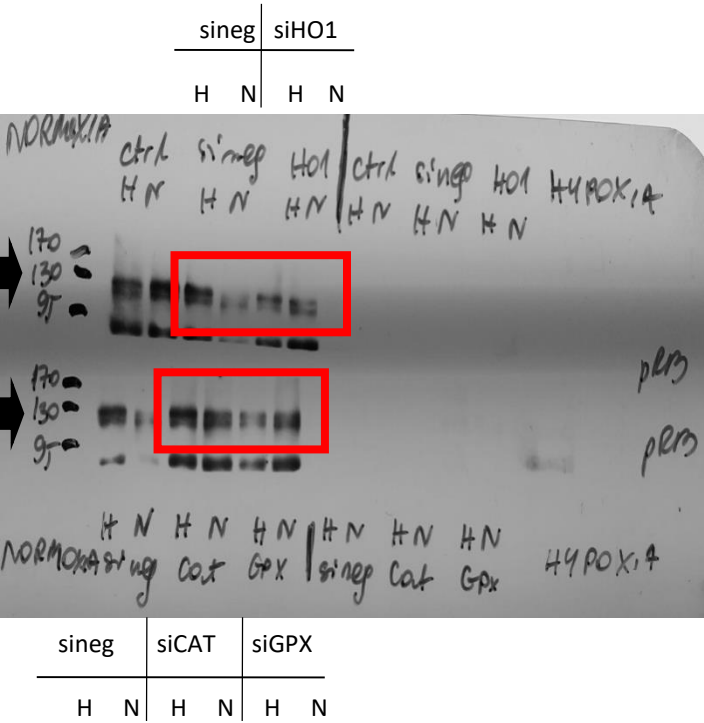


Fig. A.II.31

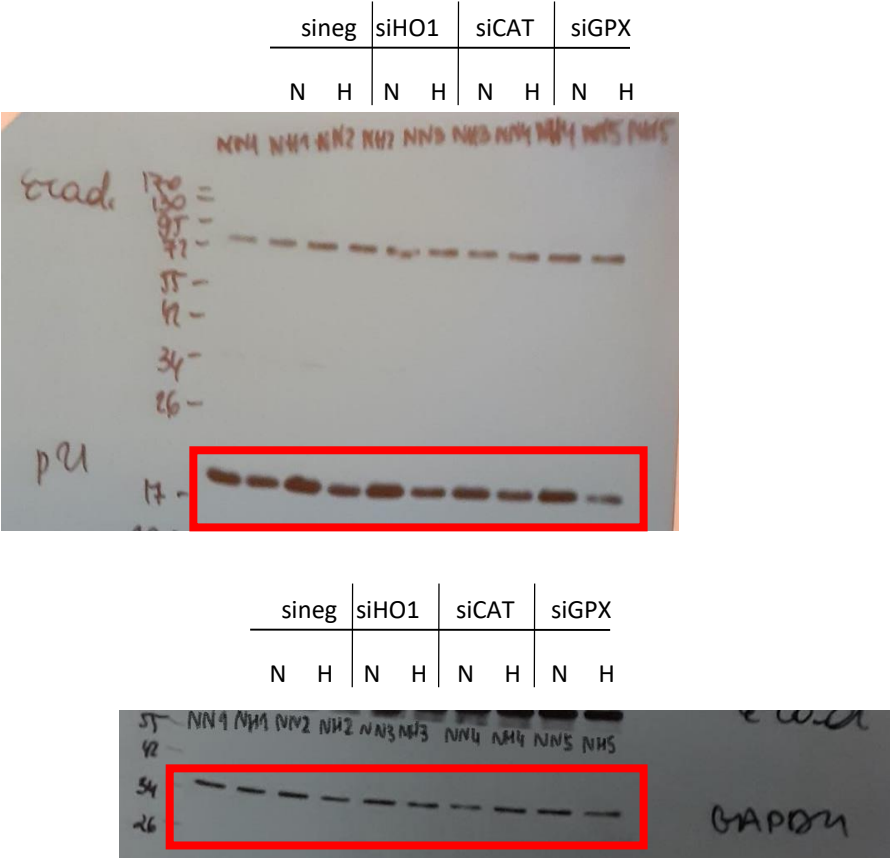


Fig. A.II.32

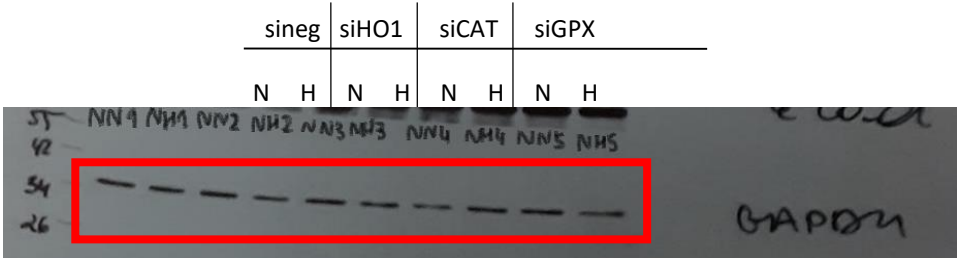
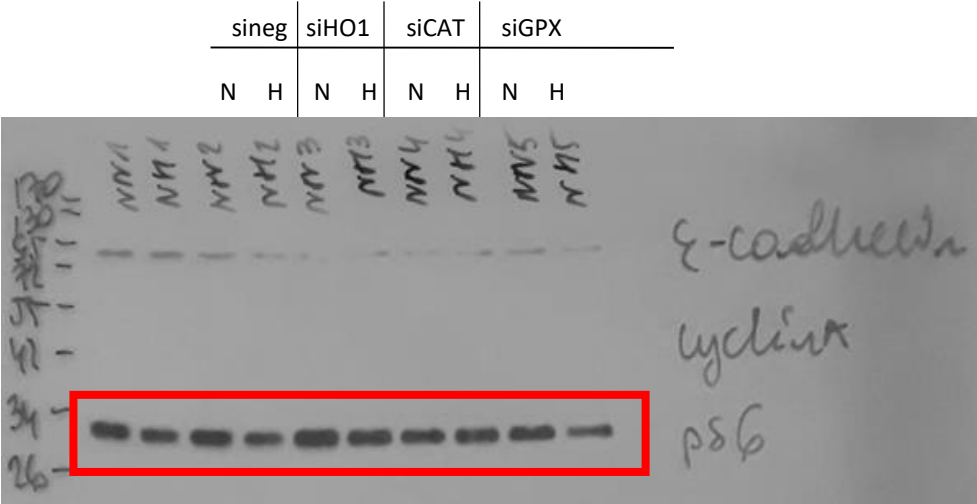


Fig. A.II.33

PARP-1

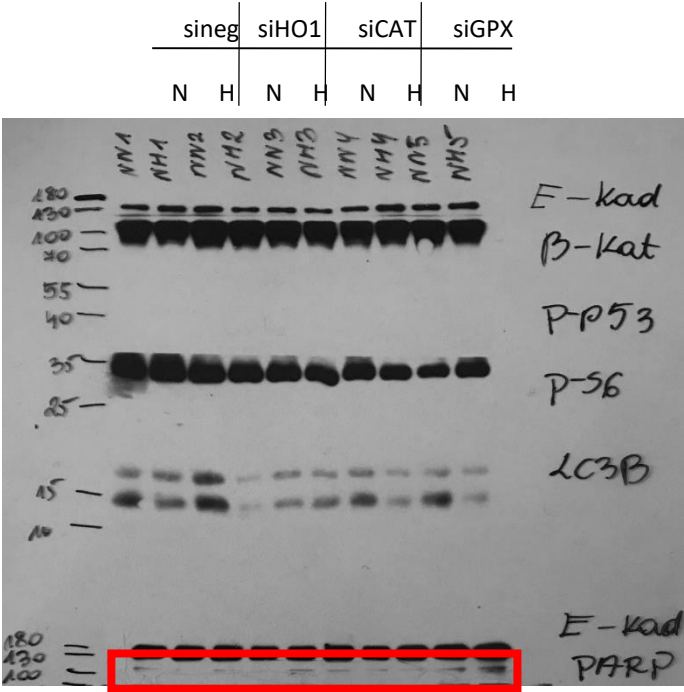


Fig. A.II.34

E-cadherin

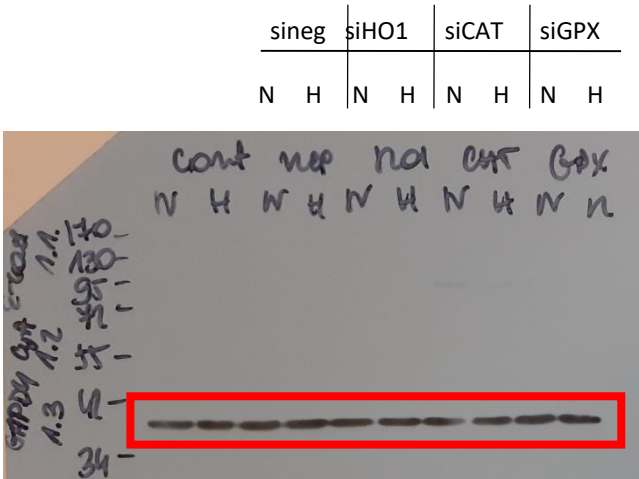
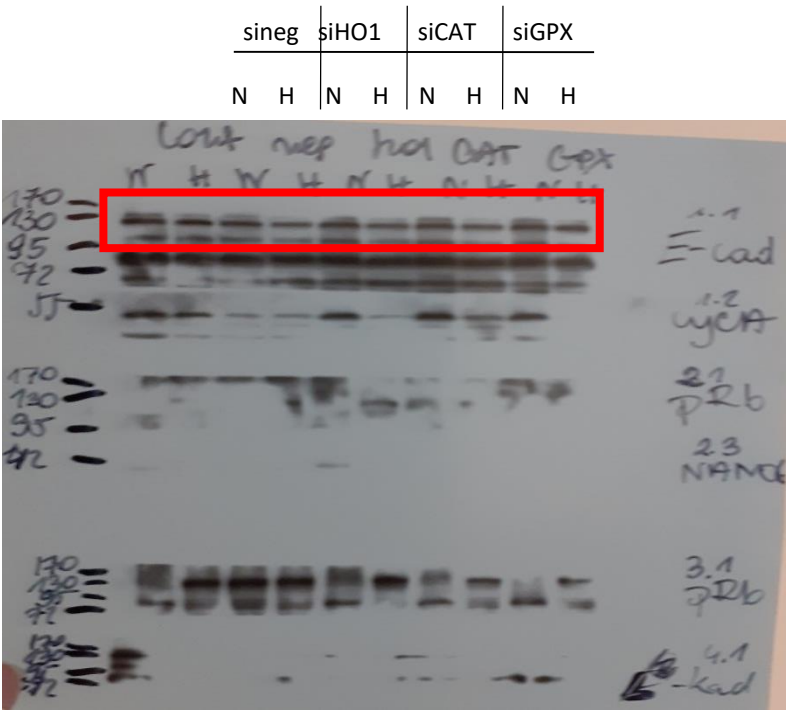


Fig. A.II.35

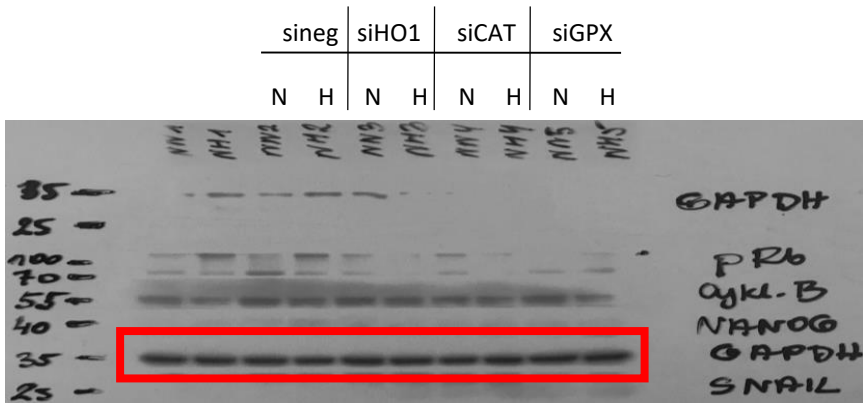


Fig. A.II.36

NANOG

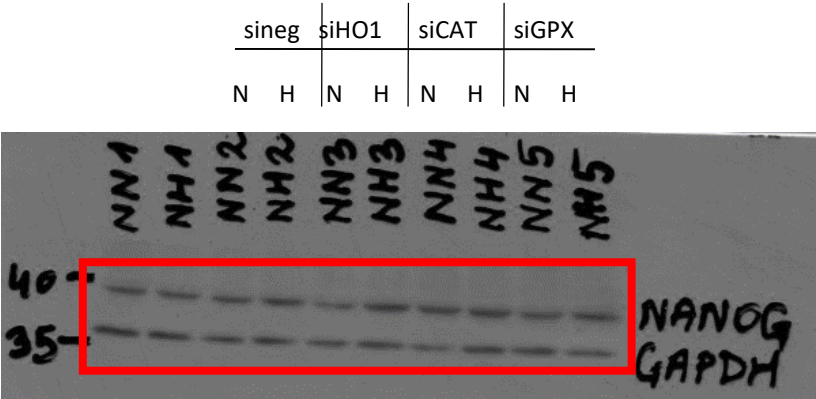


Fig. A.II.37

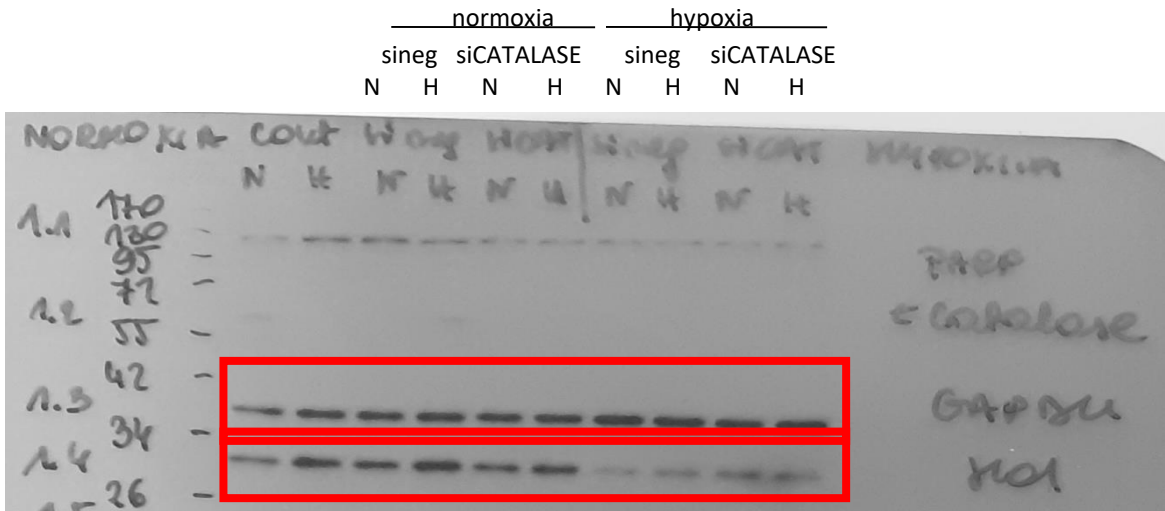


Fig. A.II.38

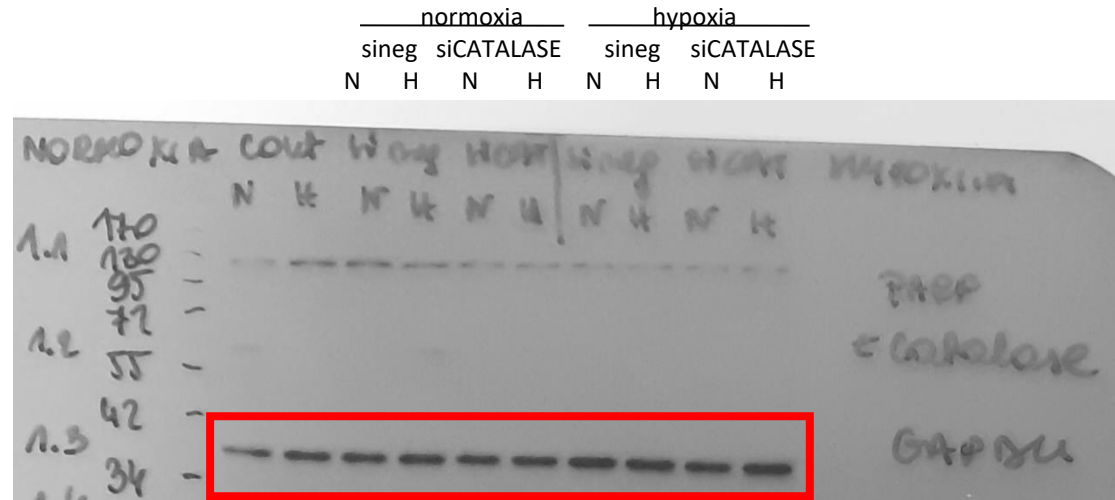
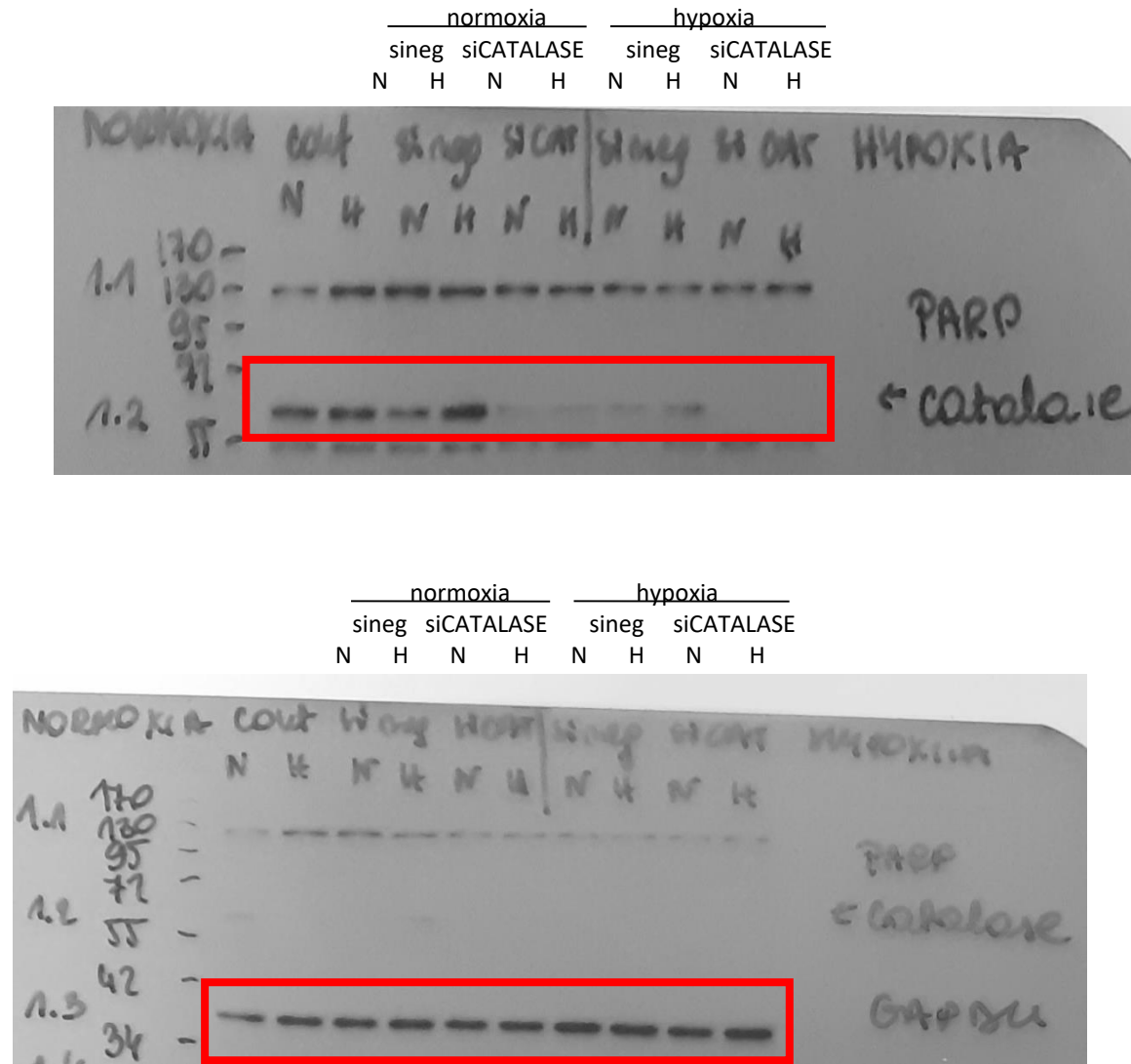
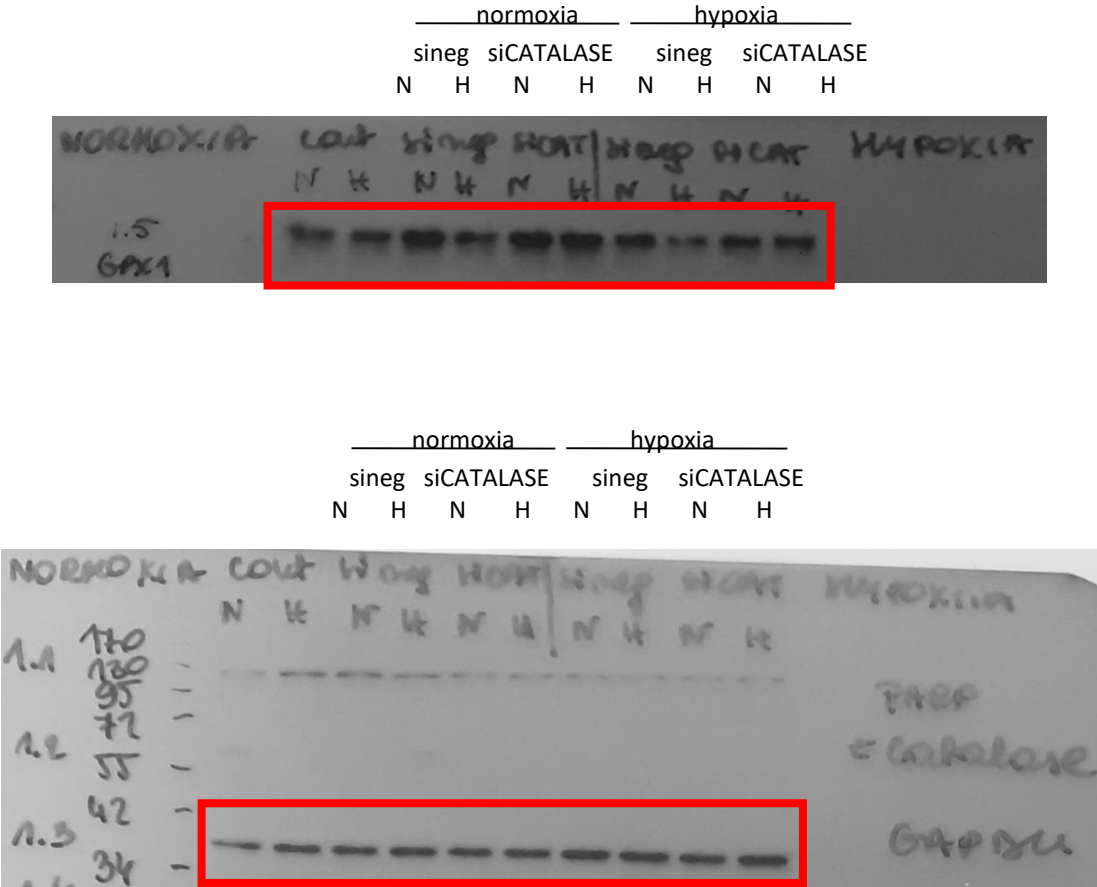


Fig. A.II.39



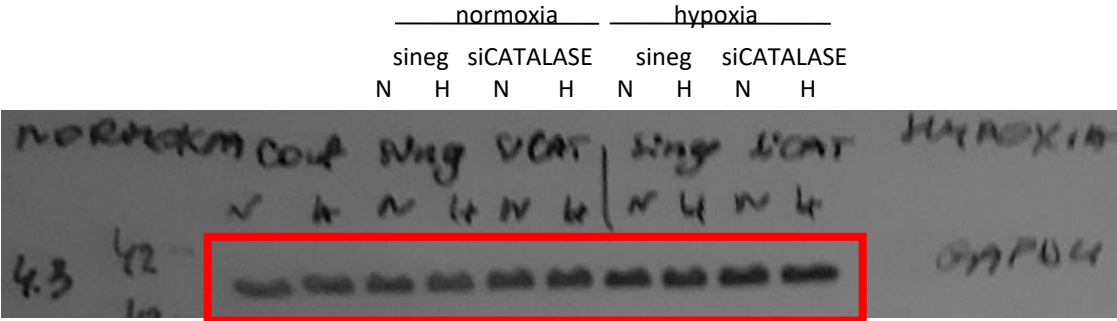
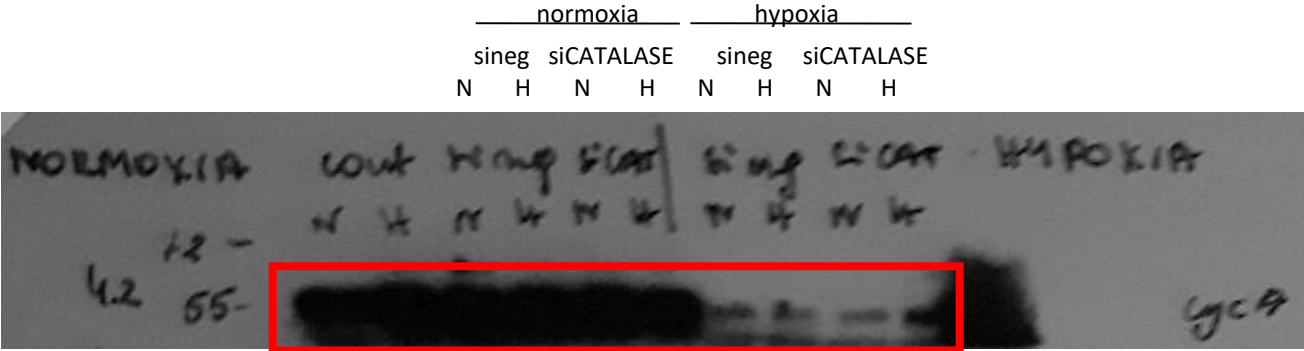
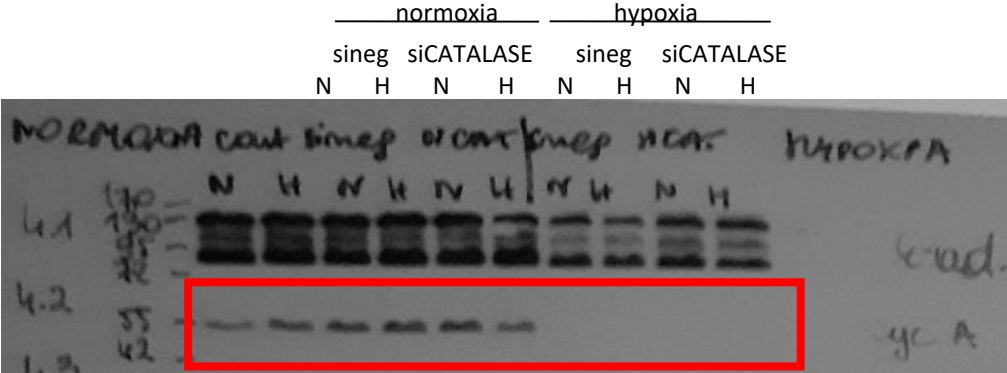
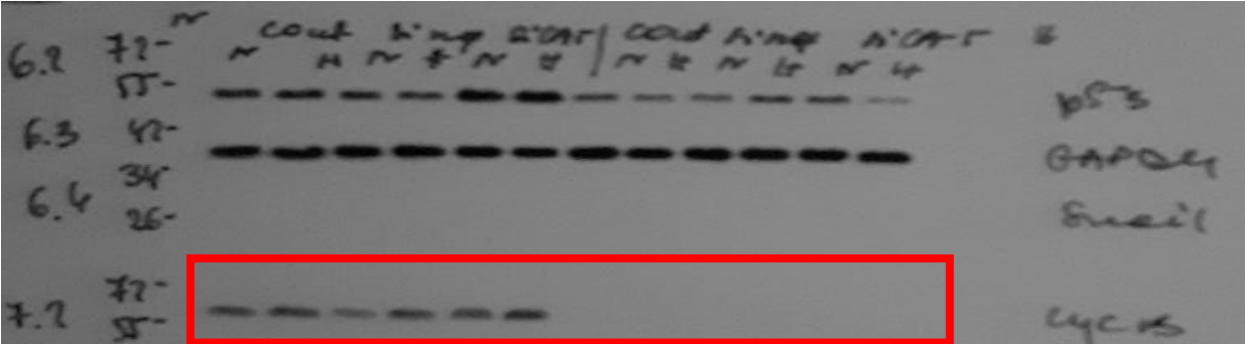


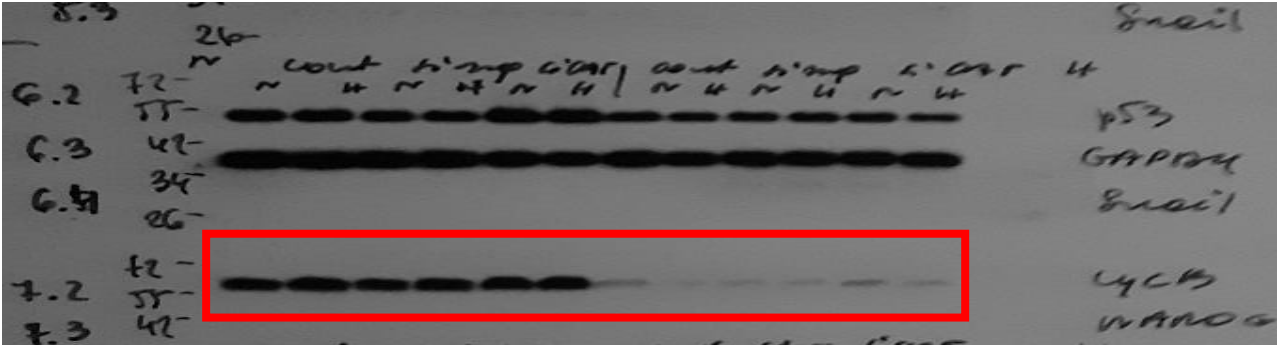
Fig. A.II.41

cyclin B

normoxia				hypoxia			
sineg		siCATALASE		sineg		siCATALASE	
N	H	N	H	N	H	N	H



normoxia				hypoxia			
sineg		siCATALASE		sineg		siCATALASE	
N	H	N	H	N	H	N	H



normoxia				hypoxia			
sineg		siCATALASE		sineg		siCATALASE	
N	H	N	H	N	H	N	H

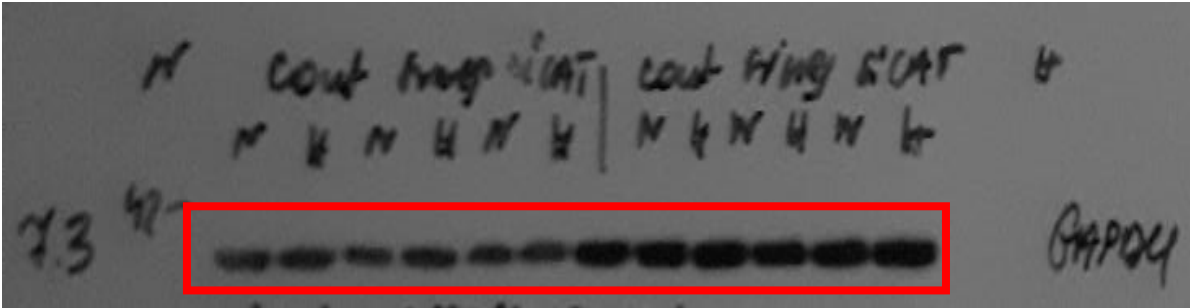


Fig. A.II.42

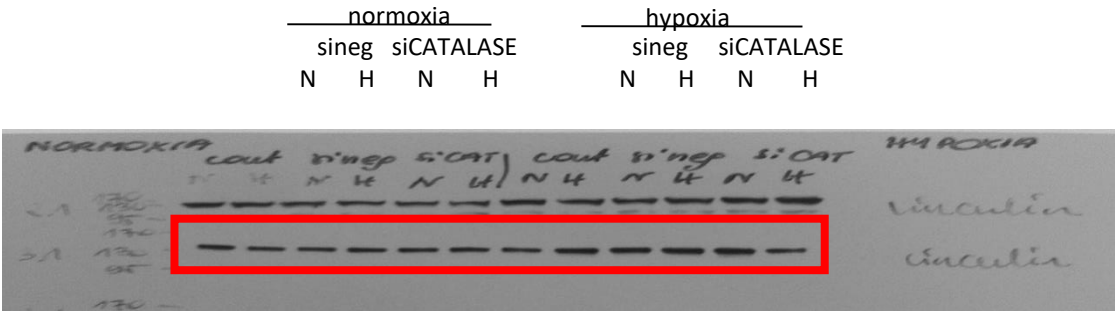
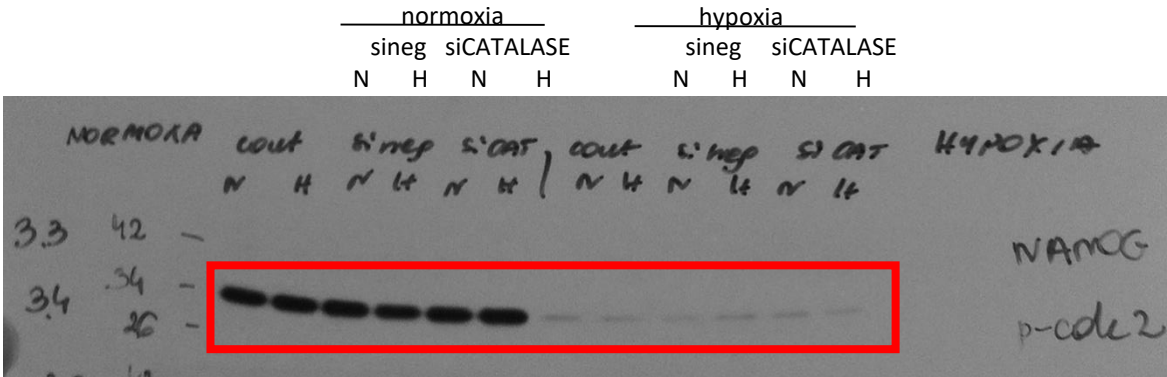


Fig. A.II.43

p-Rb

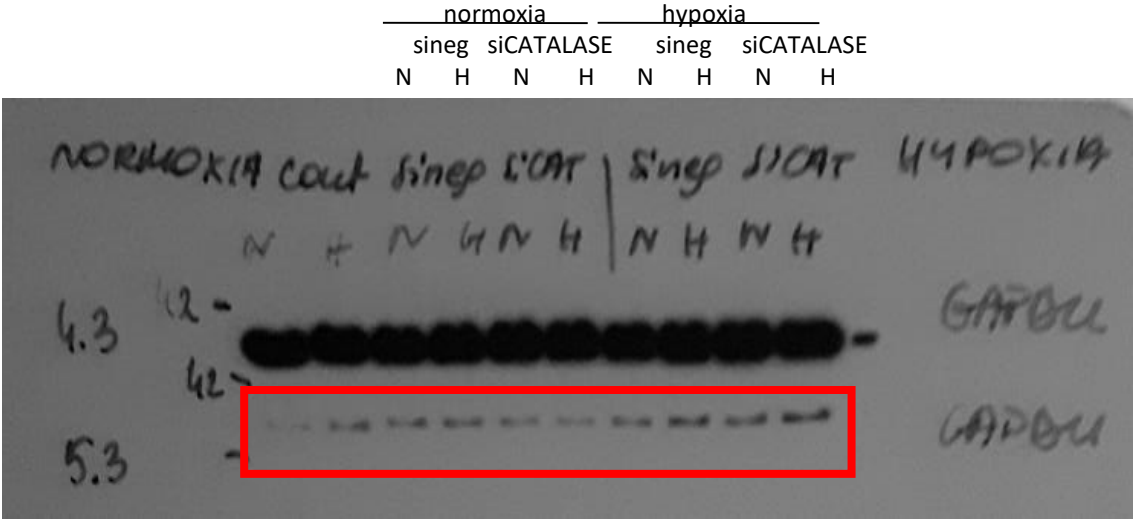
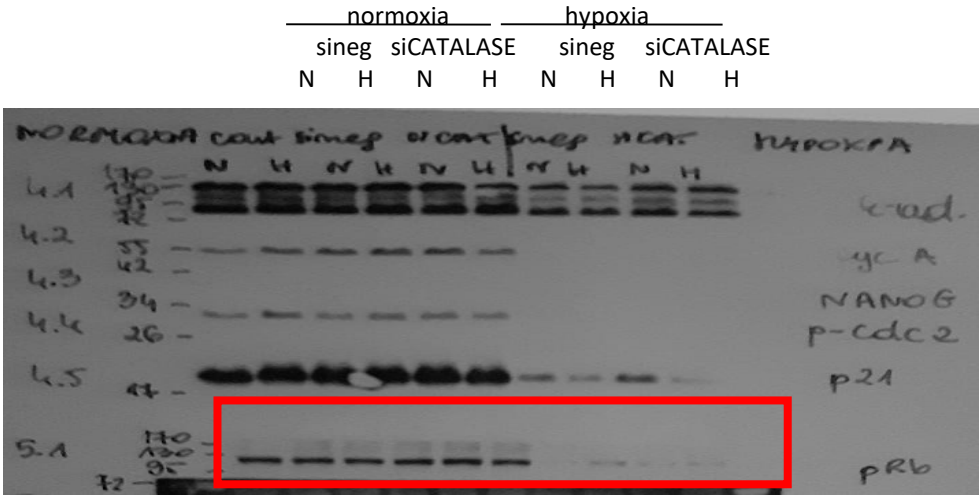


Fig. A.II.44

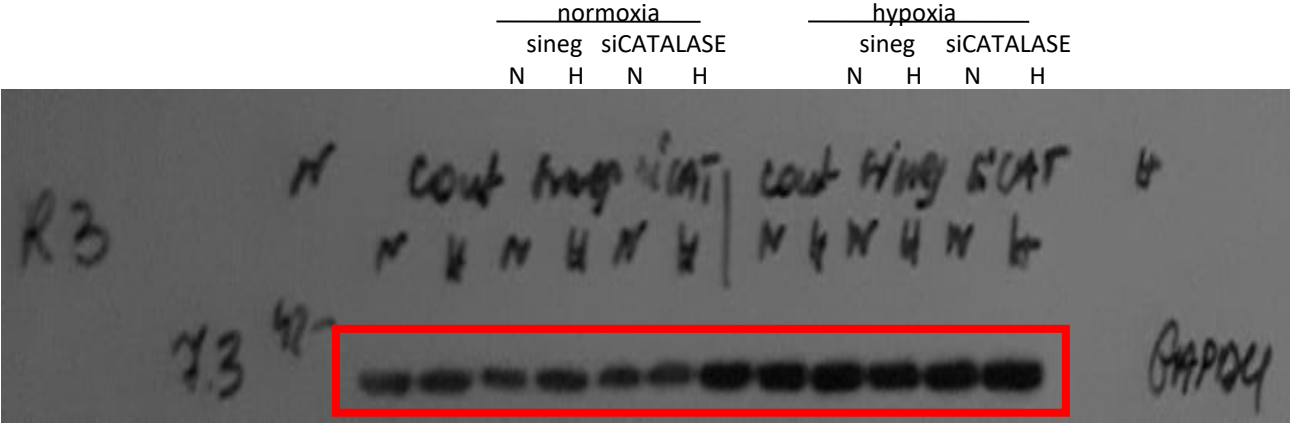
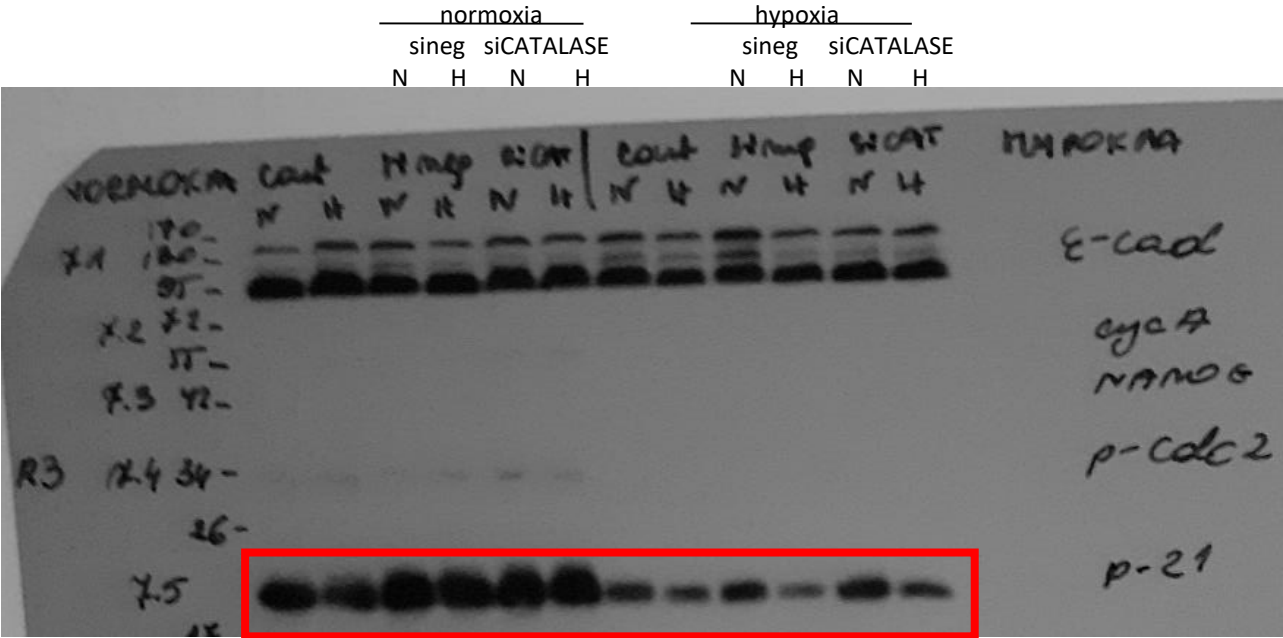


Fig. A.II.45

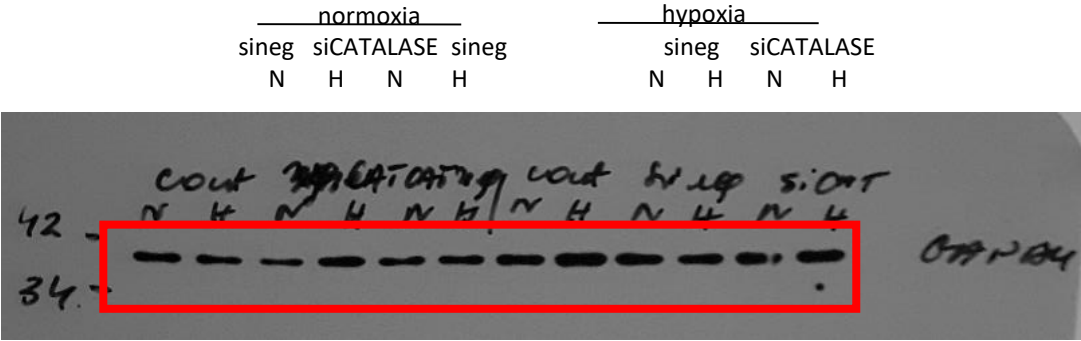
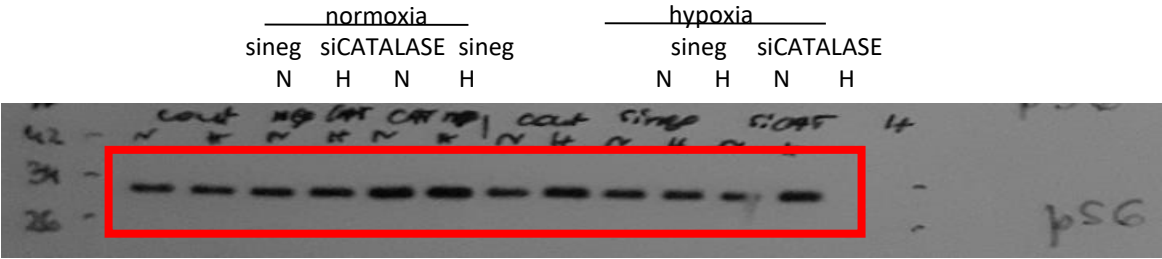


Fig. A.II.46

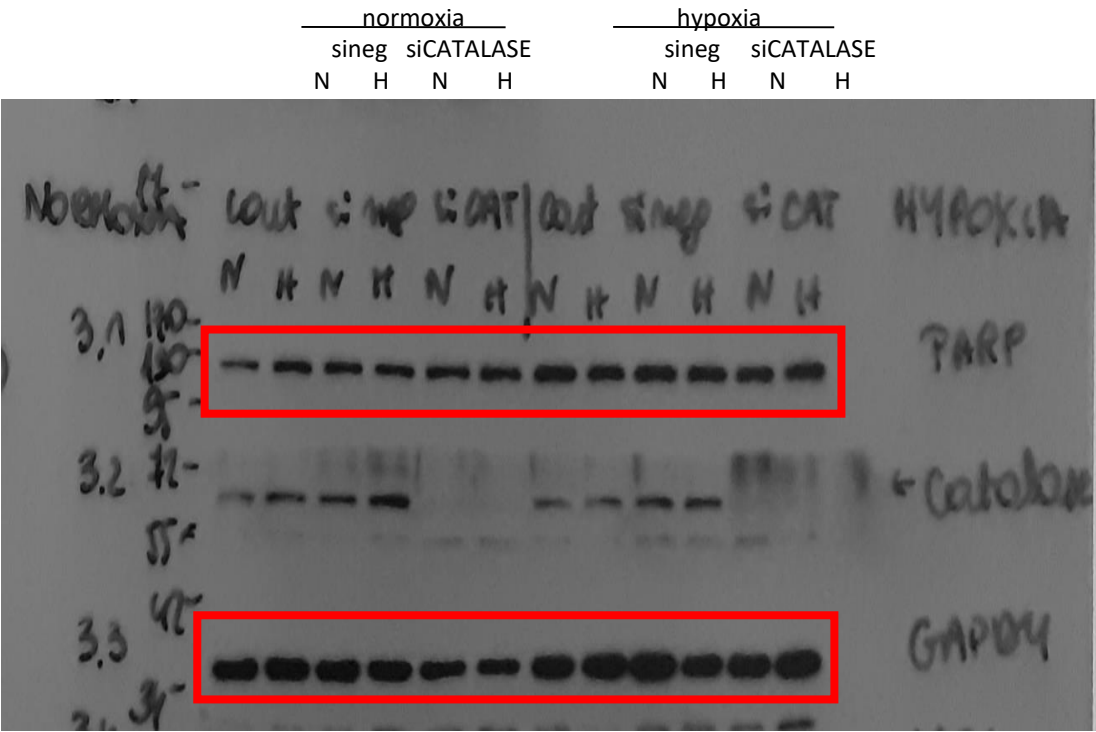


Fig. A.II.47

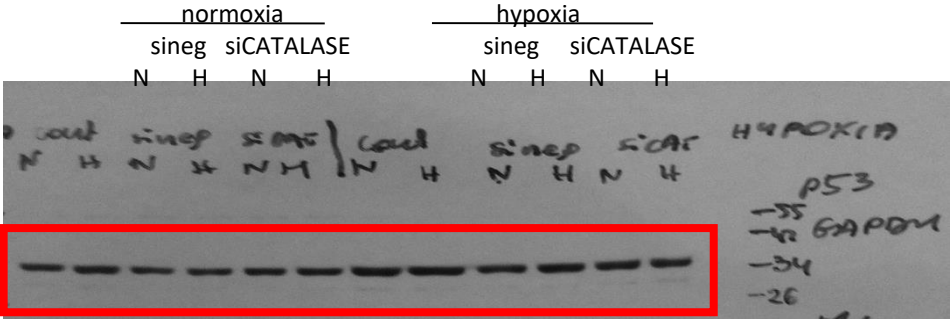
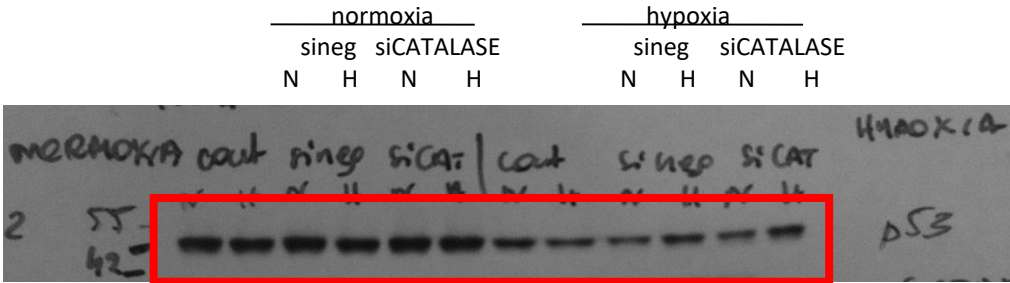
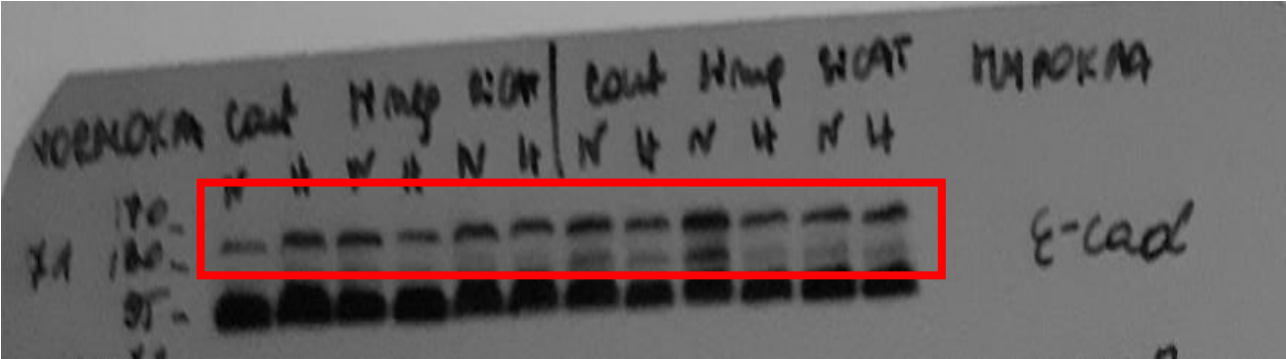


Fig. A.II.48

E-cadherin

normoxia				hypoxia			
sineg		siCATALASE		sineg		siCATALASE	
N	H	N	H	N	H	N	H



normoxia				hypoxia			
sineg		siCATALASE		sineg		siCATALASE	
N	H	N	H	N	H	N	H

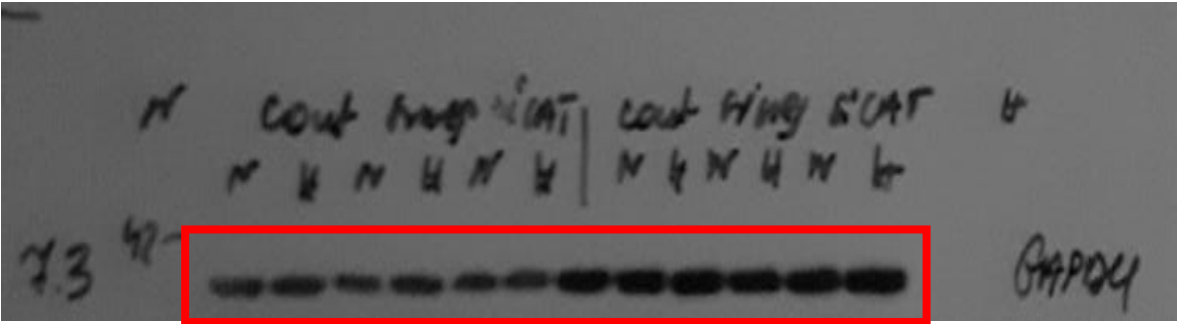
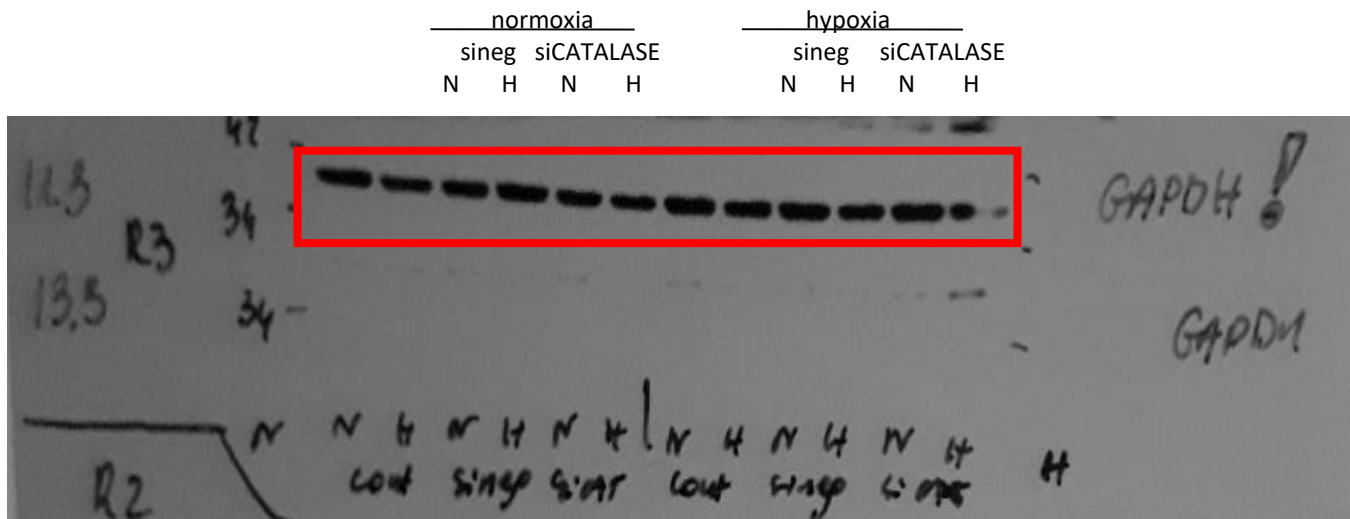
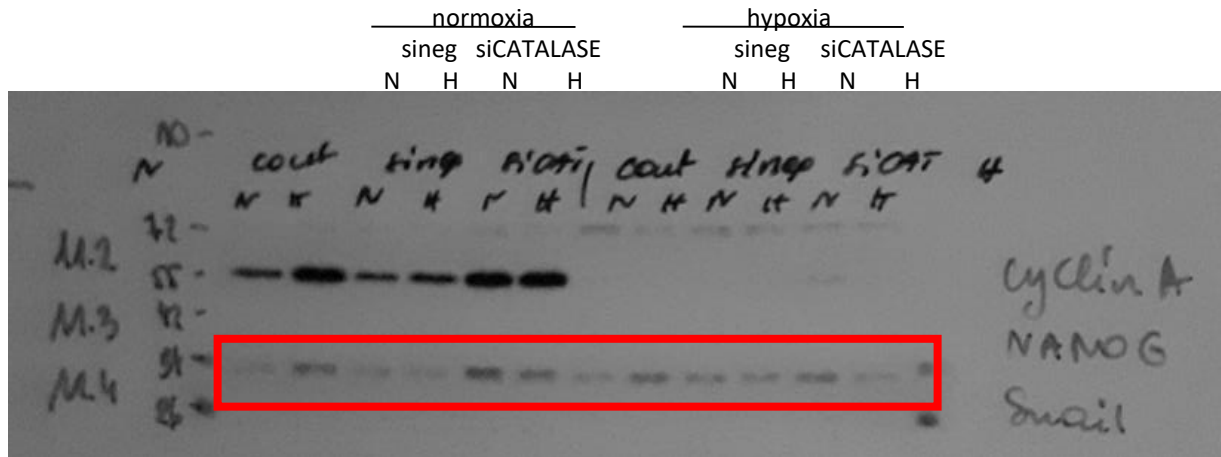


Fig. A.II.49

Snail



NANOG

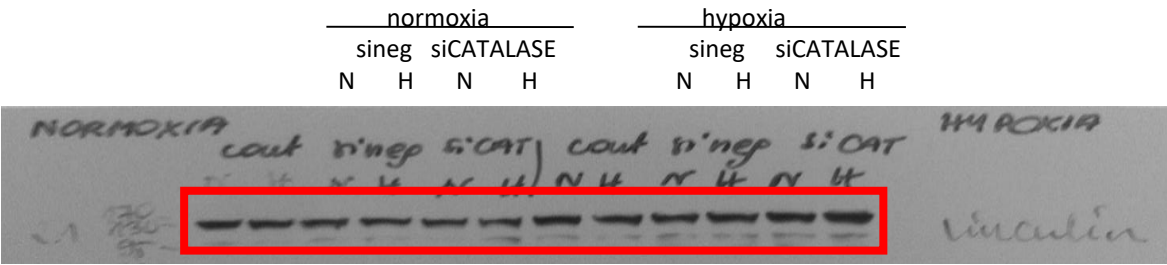
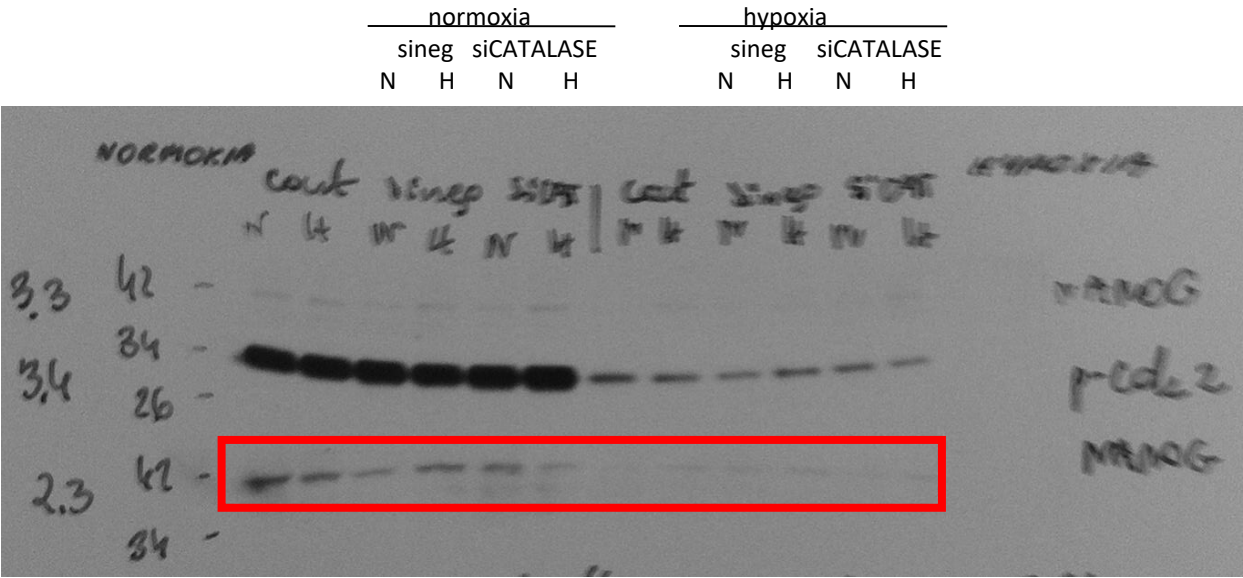


Fig. A.II.51