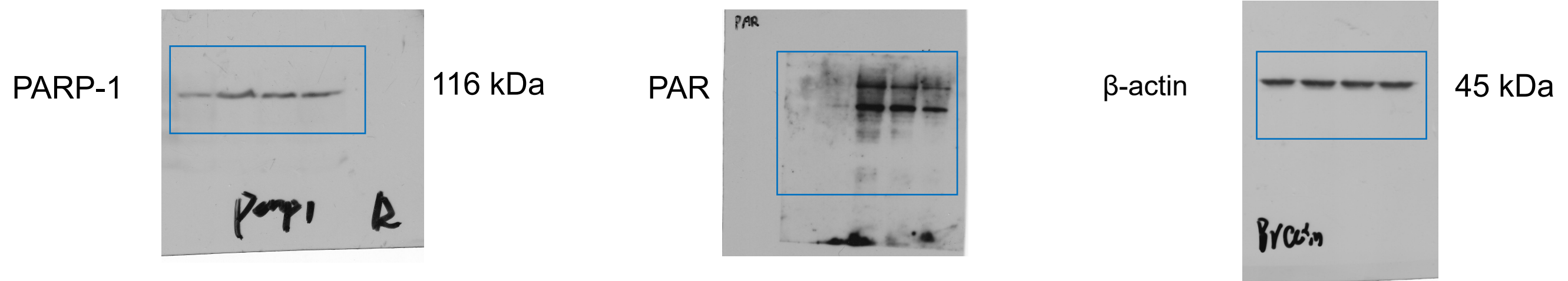


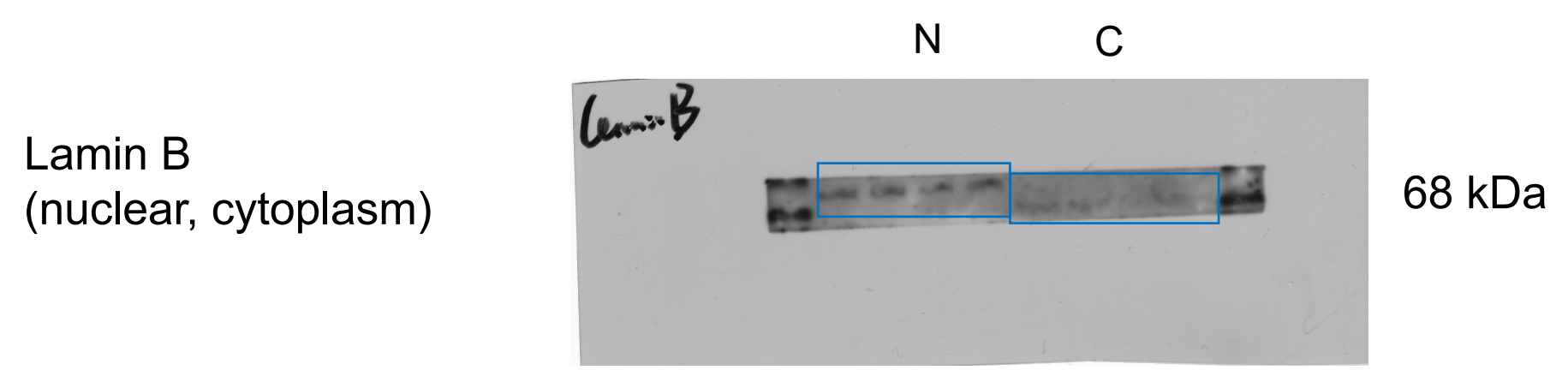
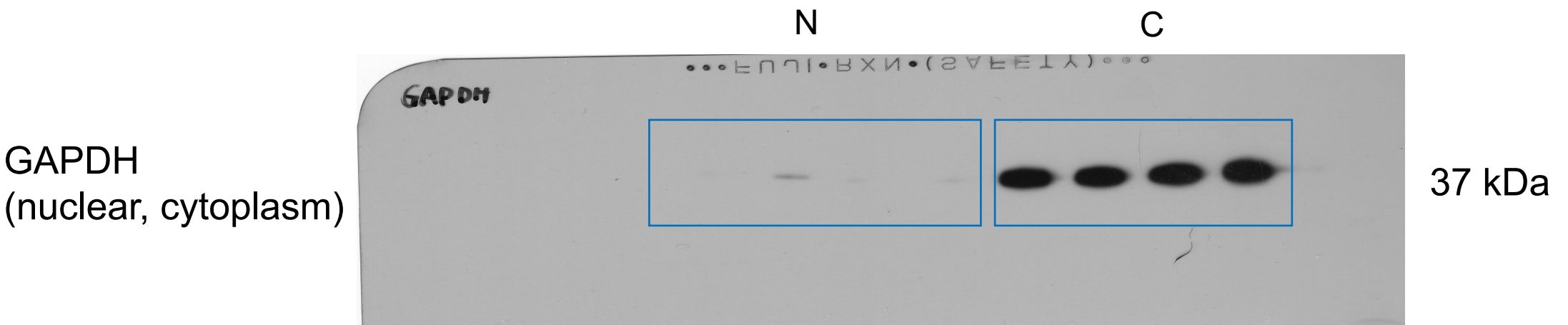
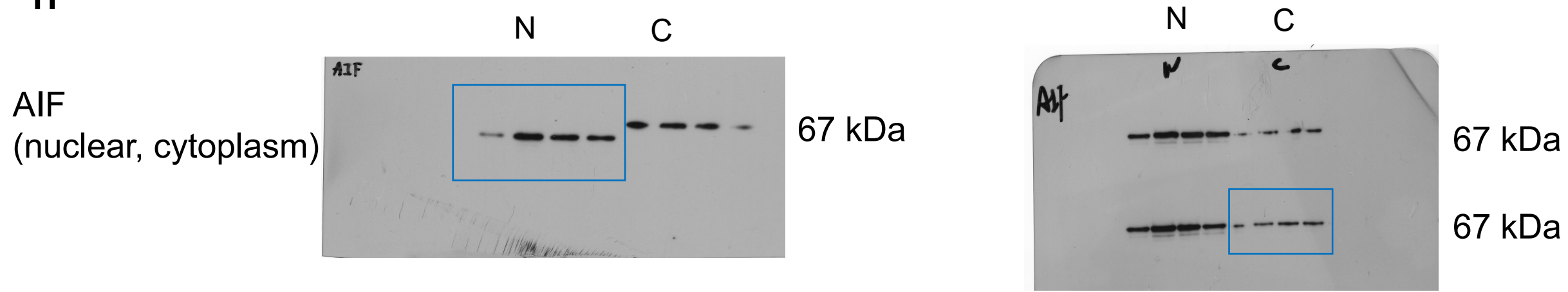
**Fig.1**

Ctrl. MCAO, MCAO+crocic(20, 40 mg/kg).

**E**



**H**

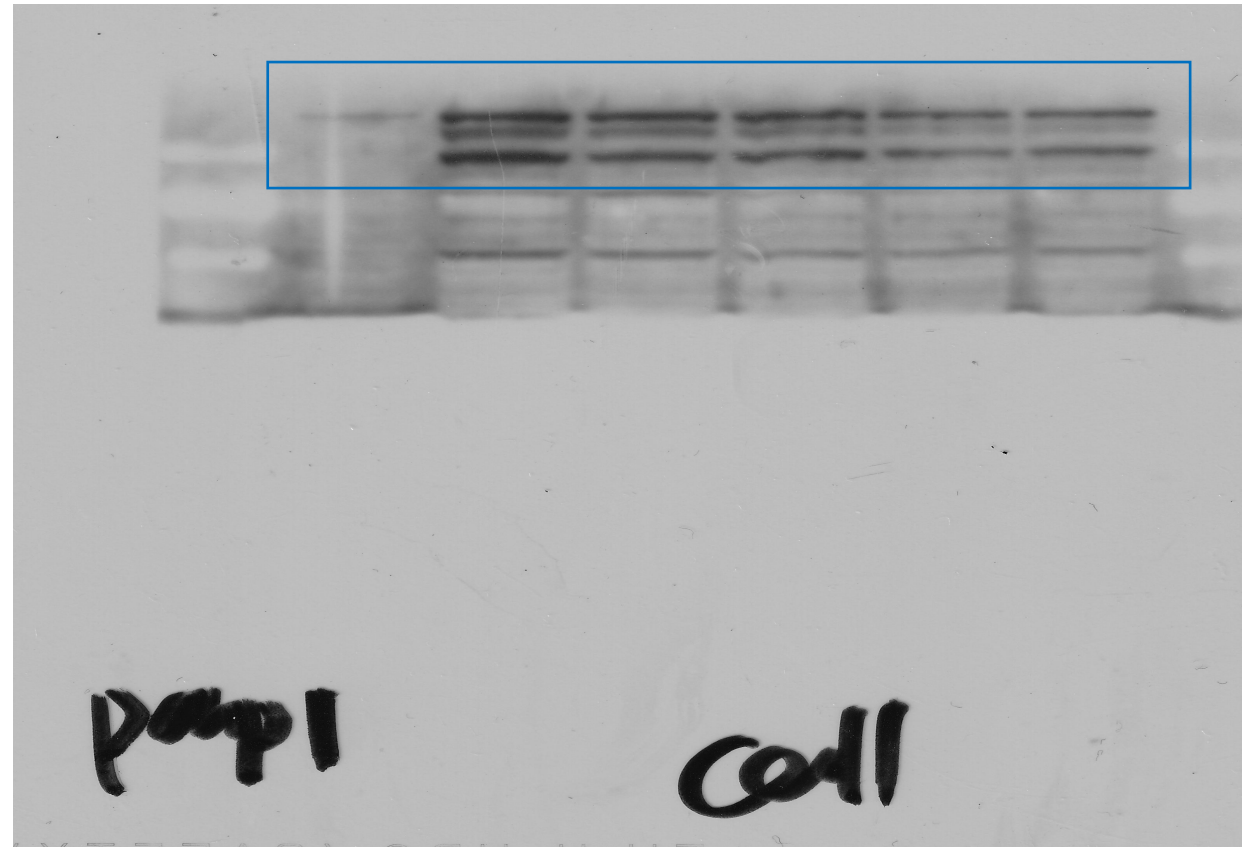


**Fig.2**

Ctrl, OGD. OGD+crocetin (5, 10, 25  $\mu$ M), OGD+PJ34

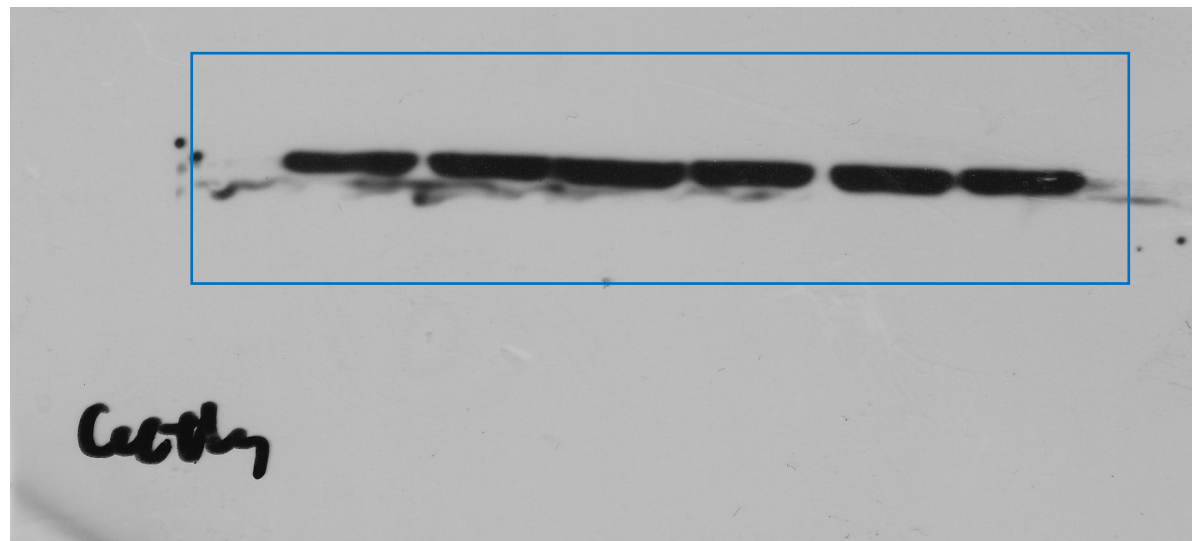
**D**

PARP-1



116 kDa

$\beta$ -acint



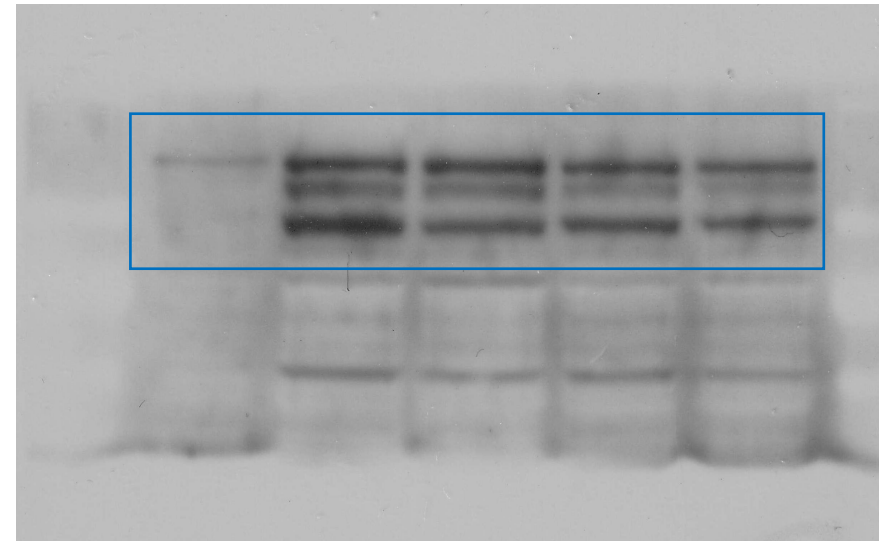
45 kDa

**Fig.3**

Ctrl, NMDA. NMDA+crocetin (5, 10, 25  $\mu$ M)

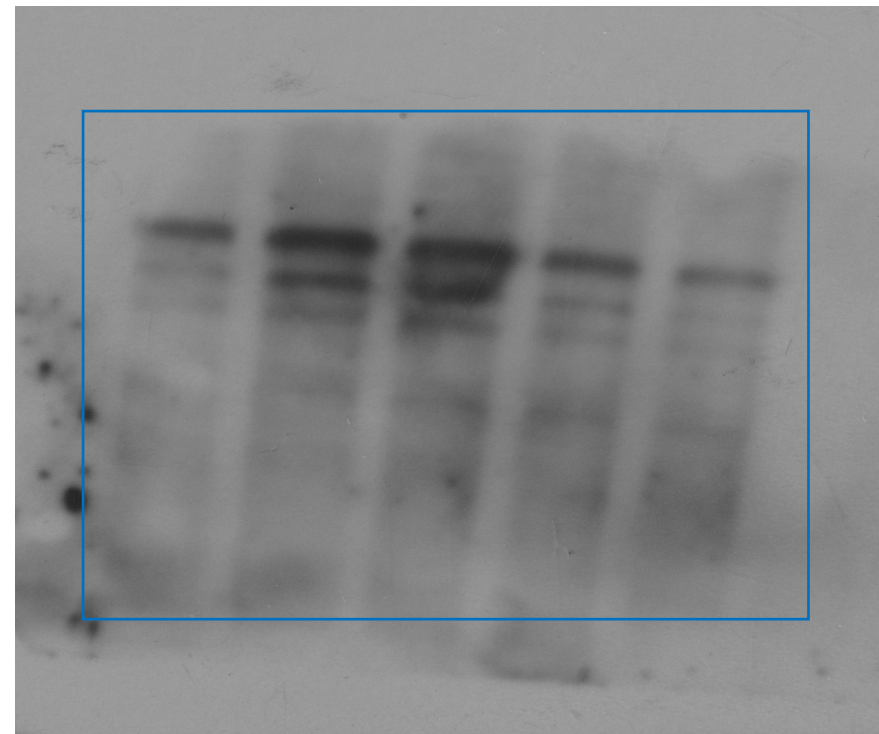
**D**

PARP-1

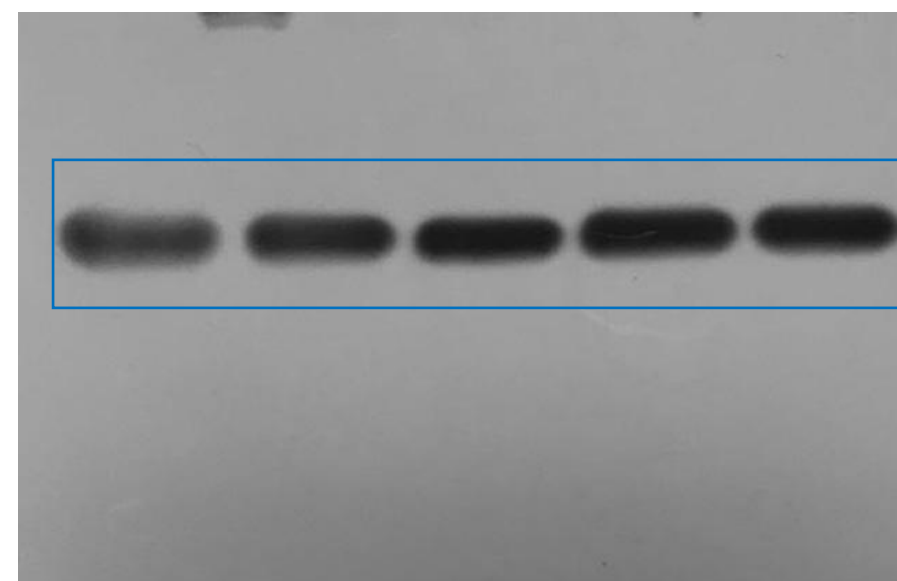


116 kDa

PAR



$\beta$ -actin



45 kDa

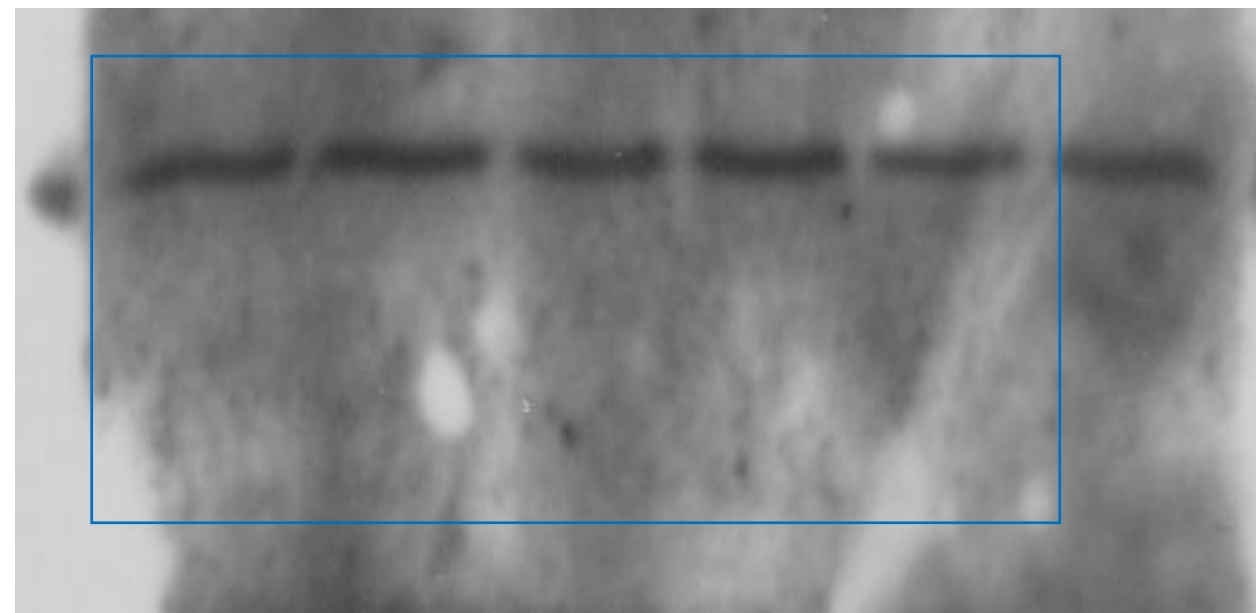
**Fig. 4**

Ctrl, MNNG. MNNG+crocetin (25, 50, 100  $\mu$ M)

**D**

Caspase-3

cleaved-  
Caspase-3

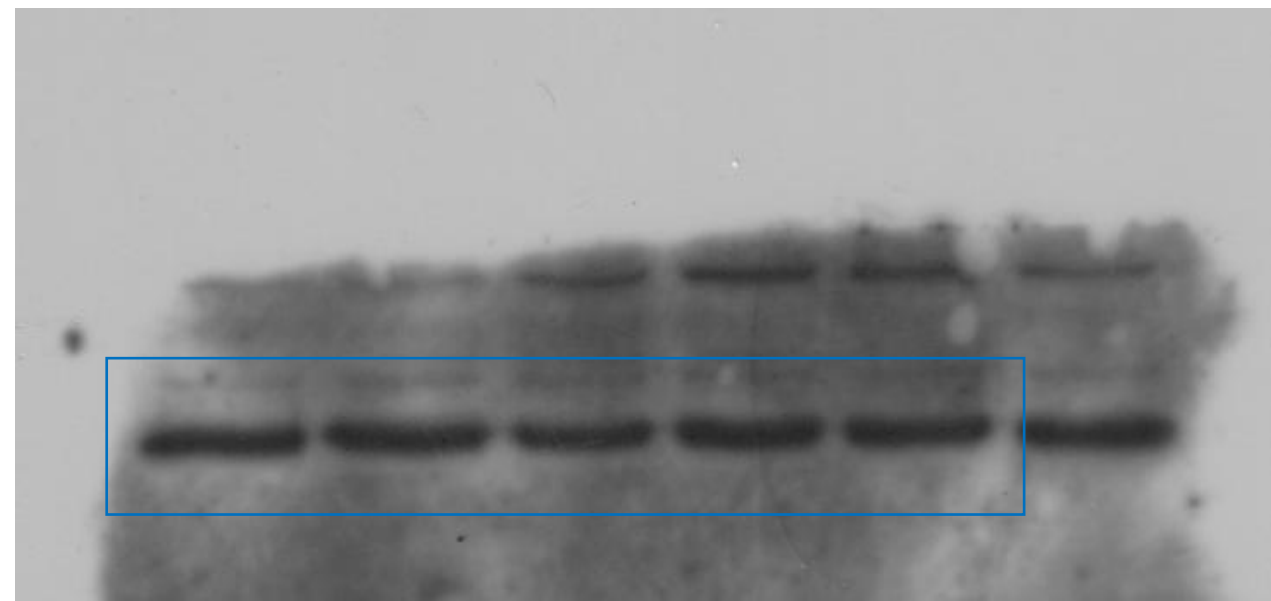


35 kDa

17 kDa

15 kDa

$\beta$ -actin

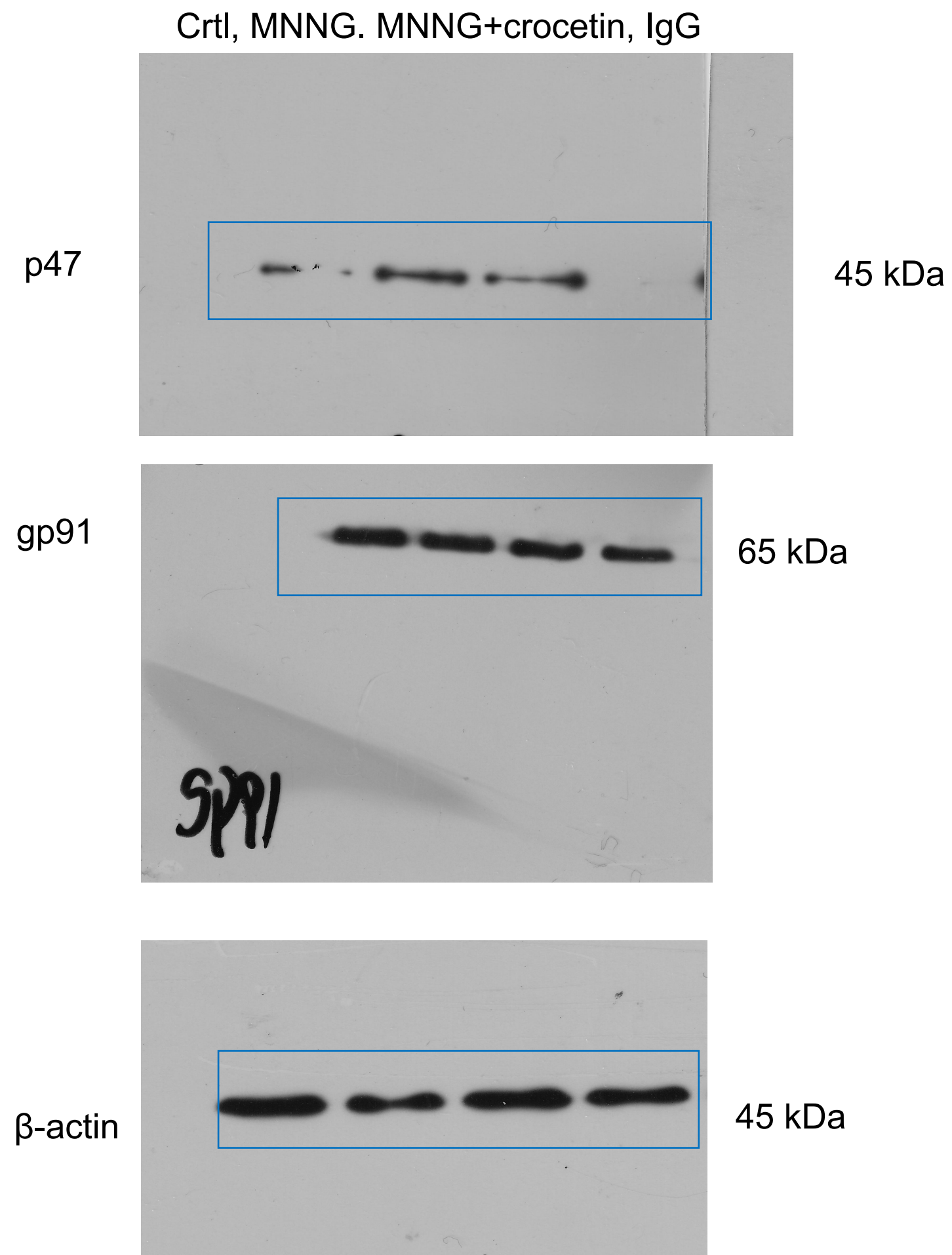


45 kDa



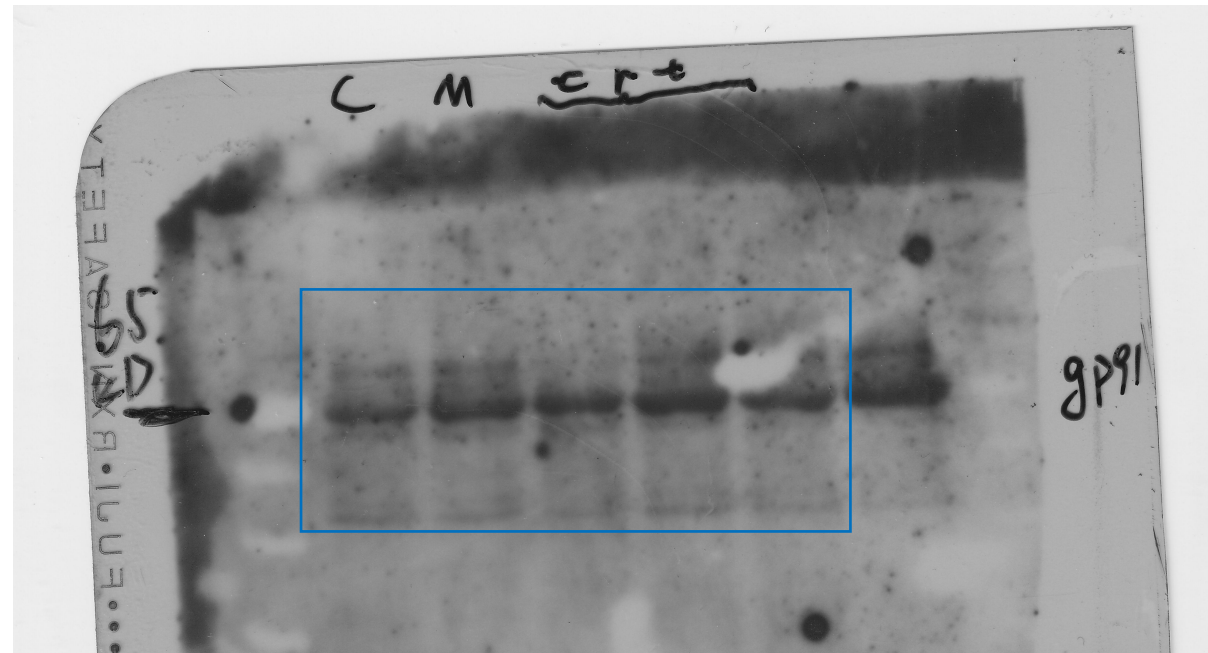
Fig. 5

H



I

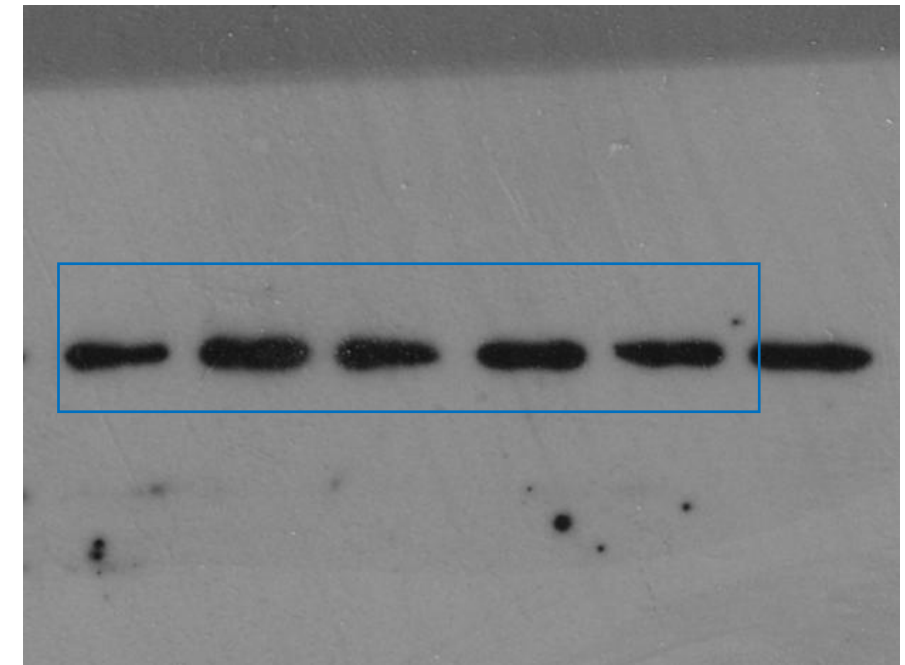
Ctrl, MNNG, MNNG+crocetin (25, 50, 100  $\mu$ M)



gp91

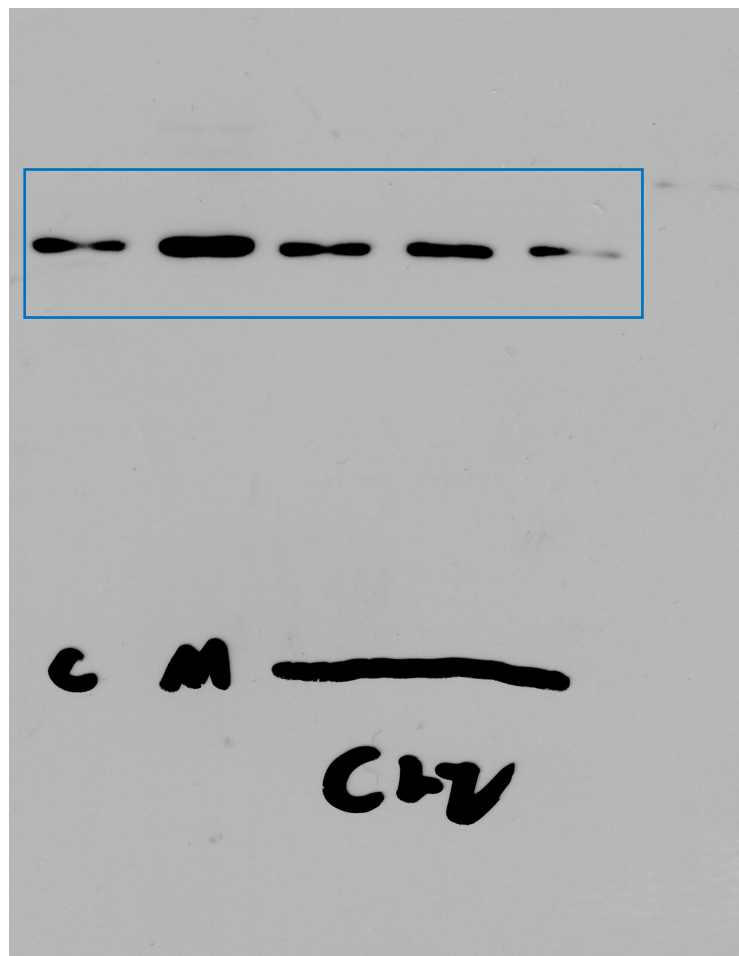
65 kDa

$\beta$ -actin



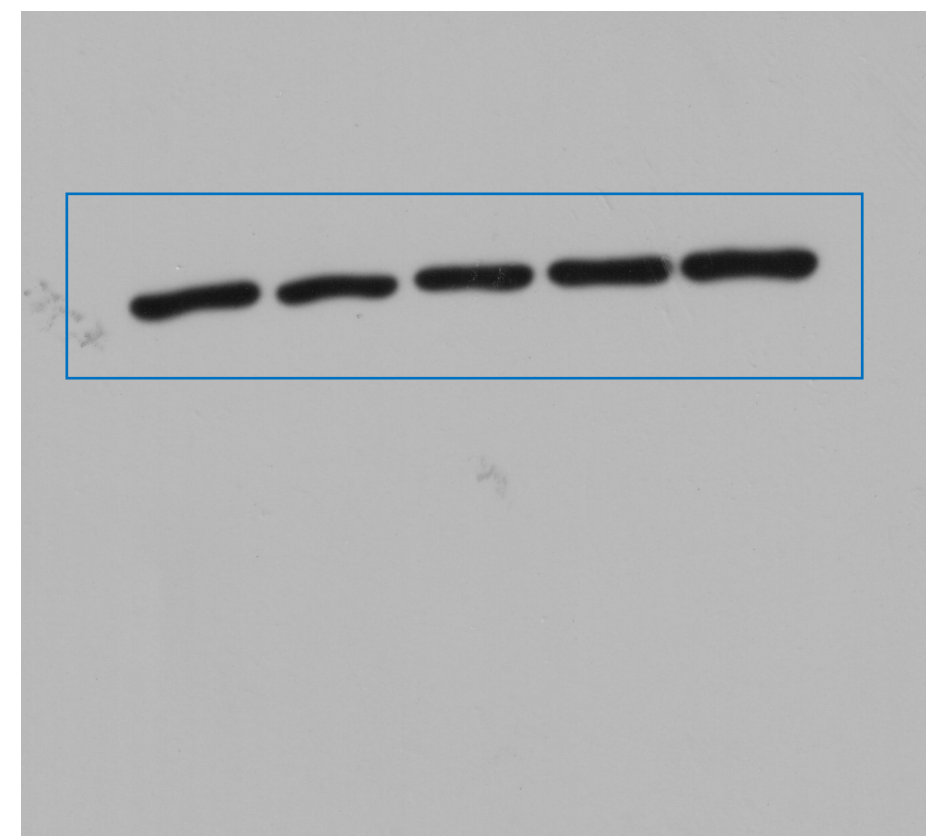
45 kDa

p-p47



45 kDa

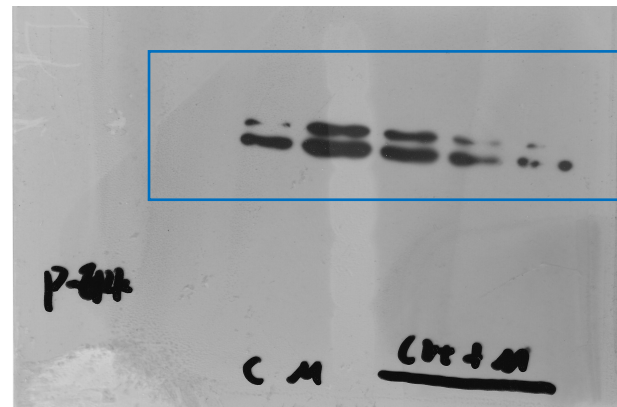
p47



45 kDa

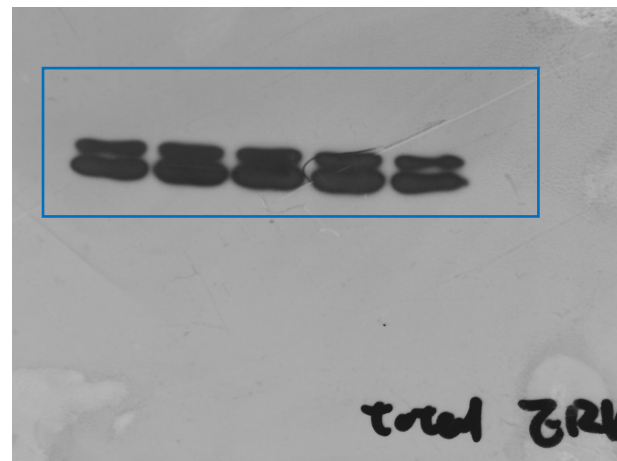
Ctrl, MNNG, MNNG+crocetin (25, 50, 100  $\mu$ M)

p-ERK



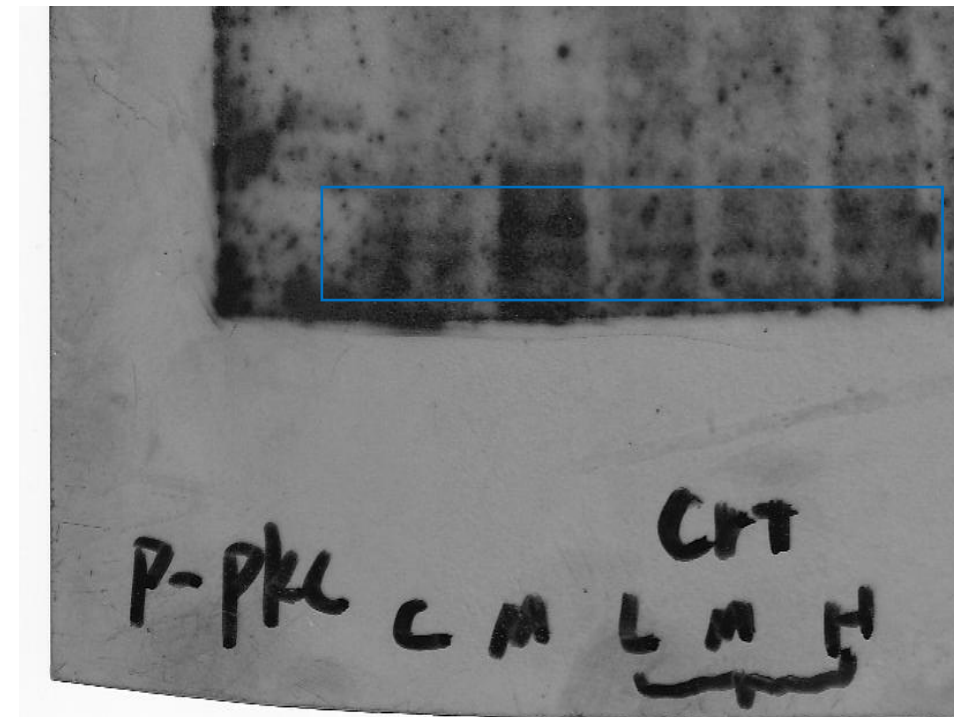
44 kDa  
42 kDa

ERK



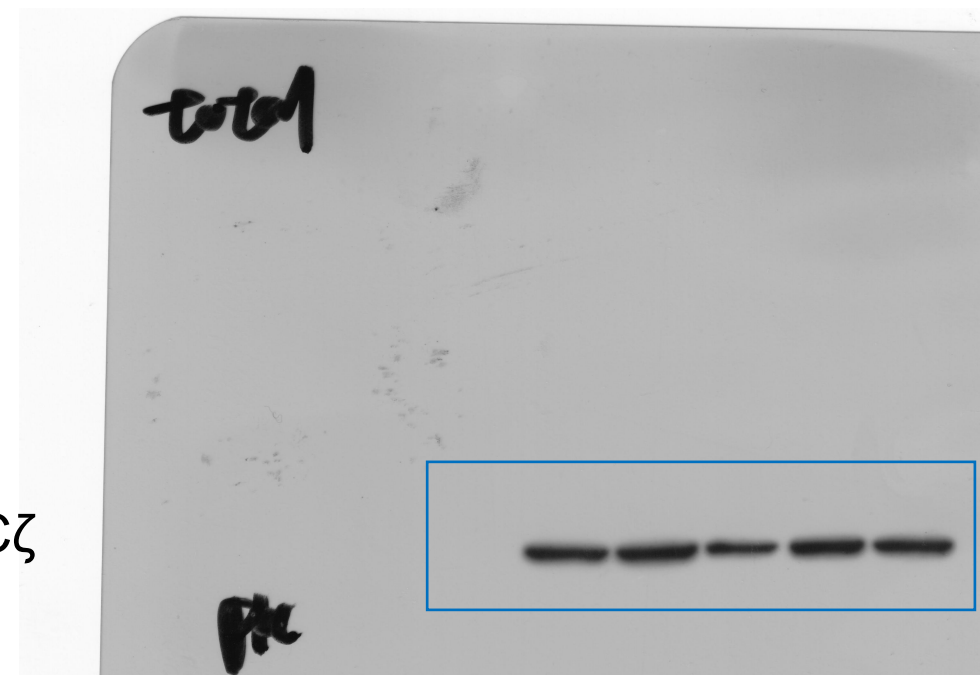
44 kDa  
42 kDa

p-PKC $\zeta$



70 kDa

PKC $\zeta$



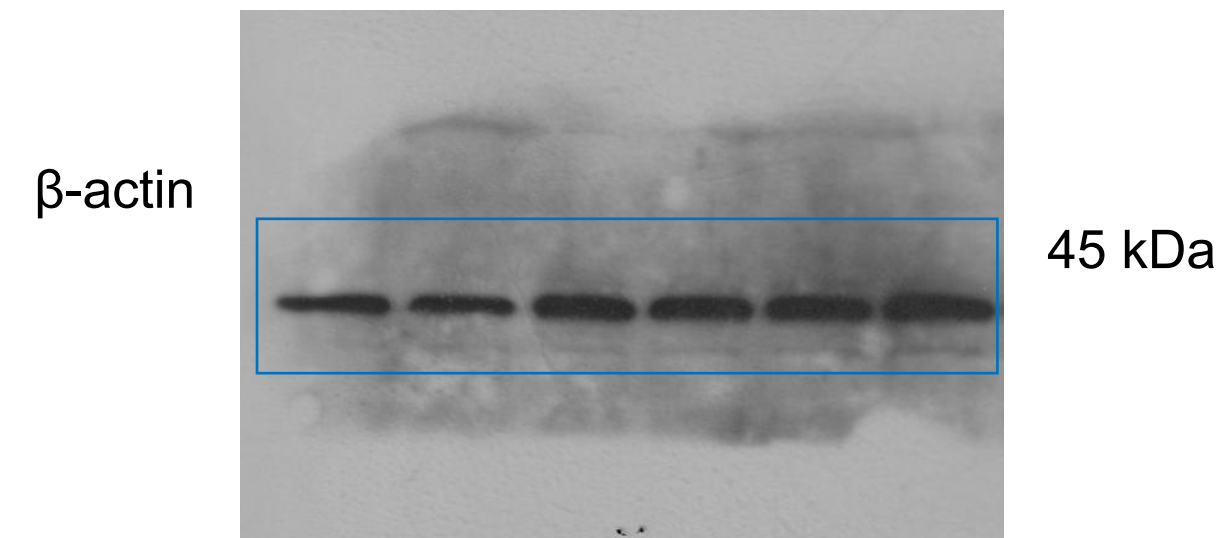
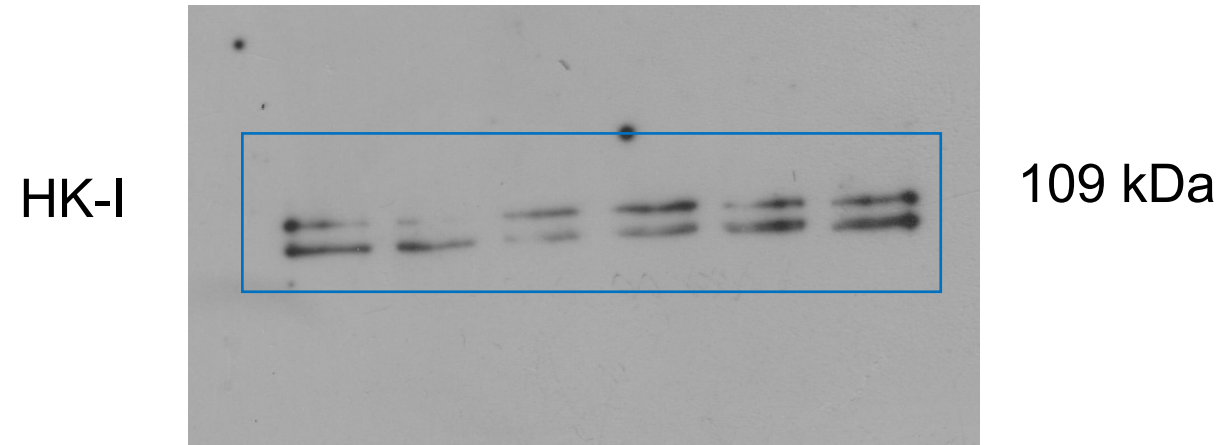
70 kDa



**Fig. 7**

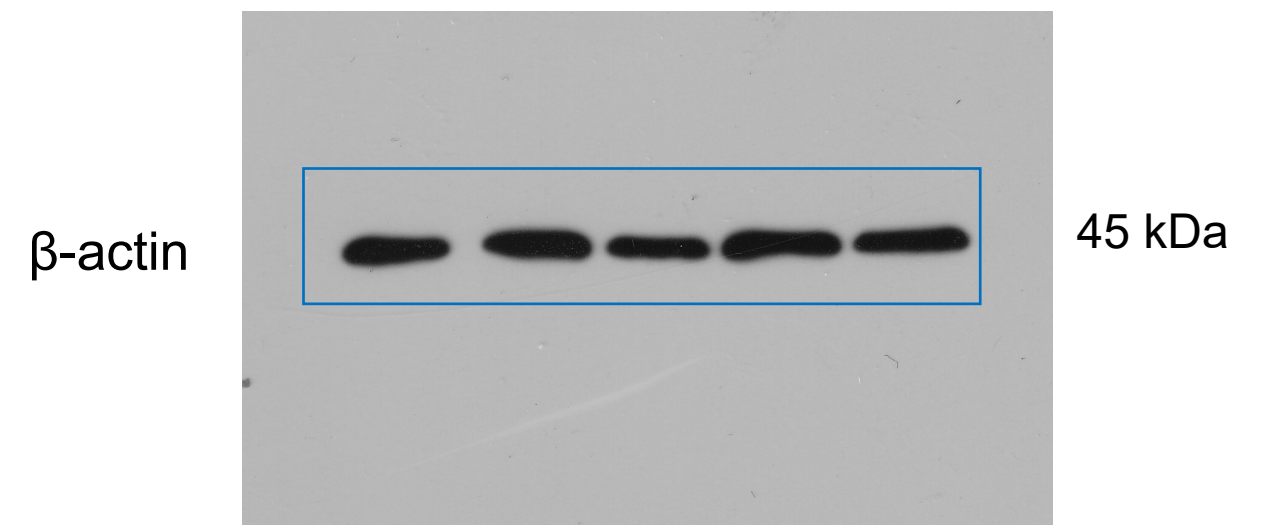
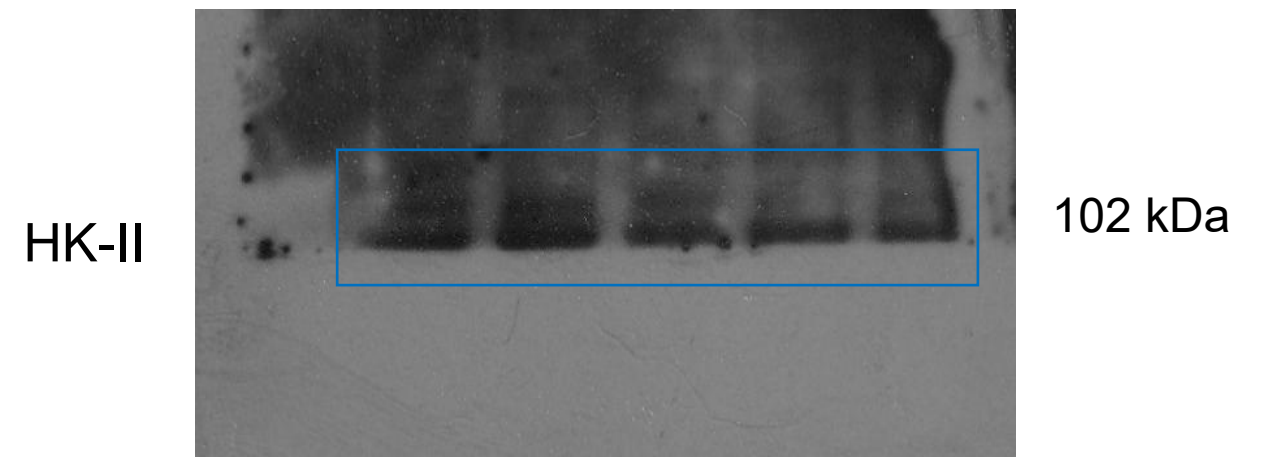
**A**

Ctrl, MNNG. MNNG+crocetin (25, 50, 100  $\mu$ M), MNNG+MG132



**D**

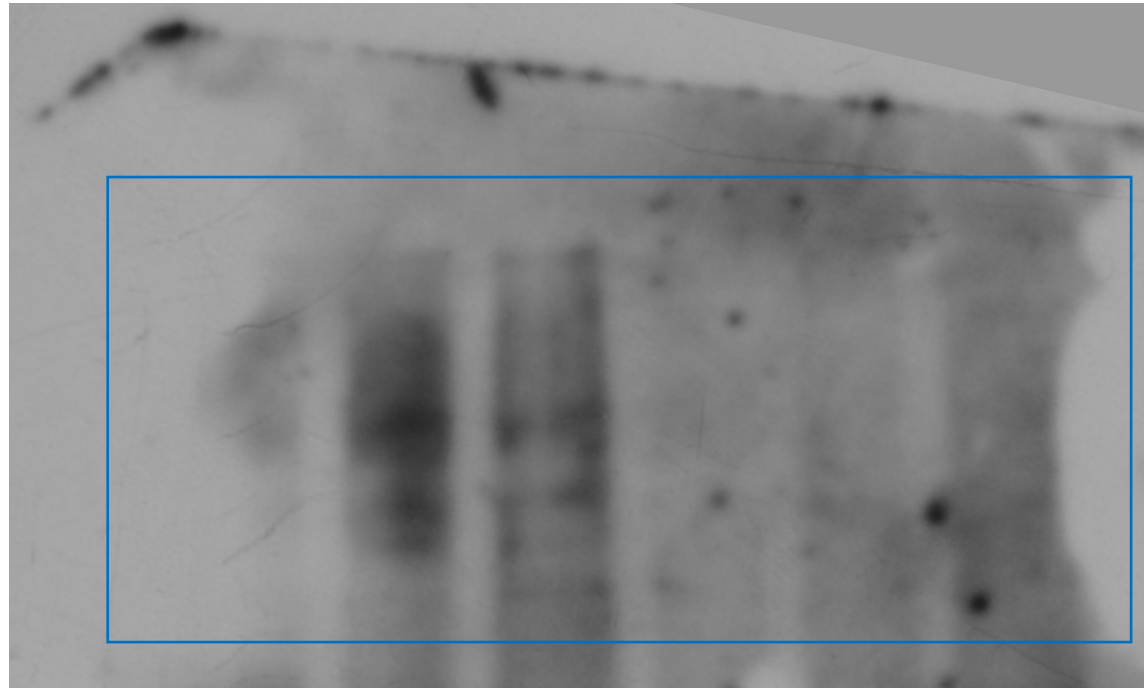
Ctrl, MNNG. MNNG+crocetin (25, 50, 100  $\mu$ M)



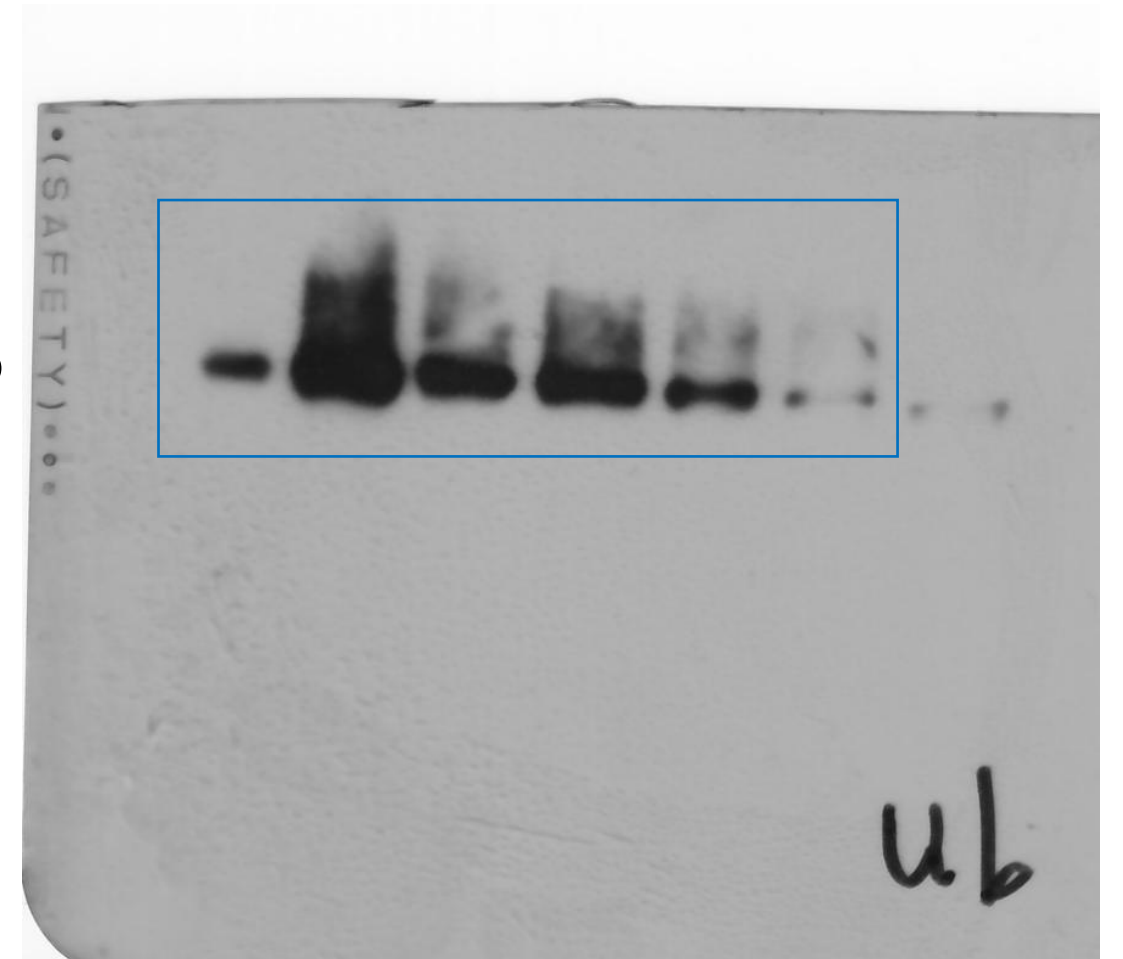


**E** Ctrl, MNNG, MNNG+crocetin (25, 50, 100  $\mu$ M), IgG

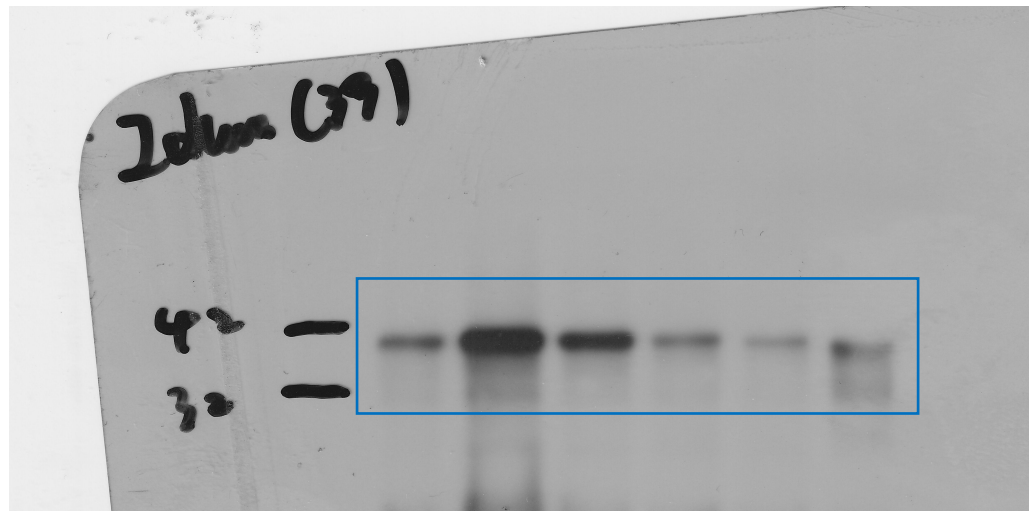
PAR



Ub

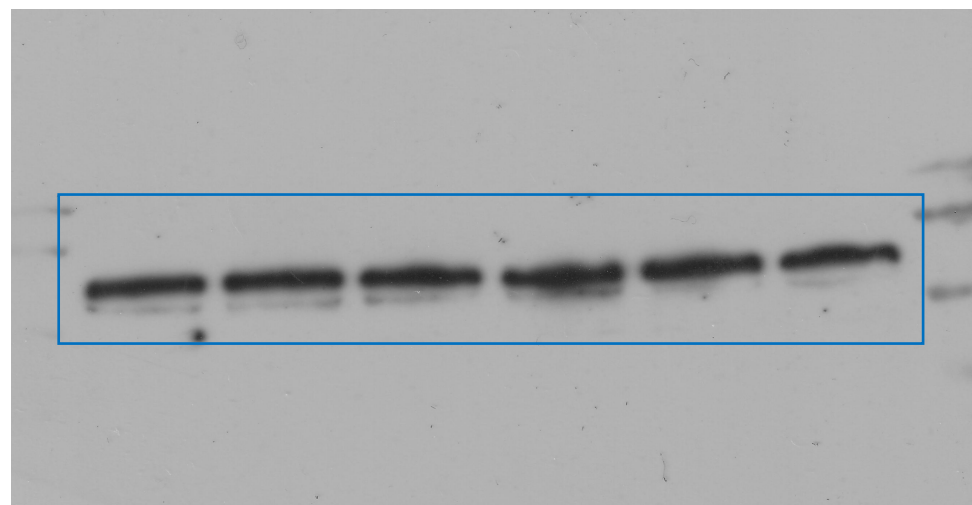


RNF146  
(Iduna)



39 kDa

HK-I



109 kDa

$\beta$ -actin

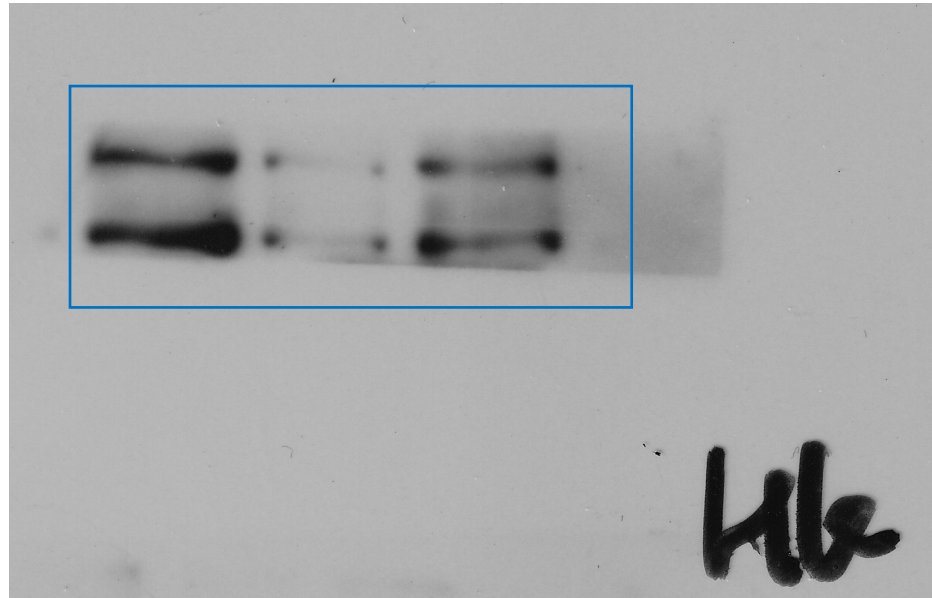


45  
kDa

I

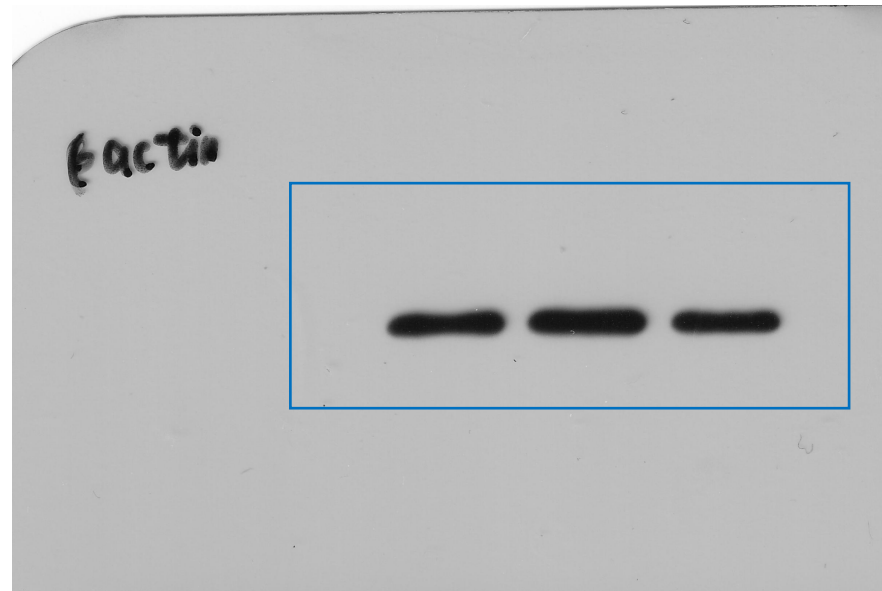
Ctrl, MNNG. MNNG+RNF146 siRNA

HK-I



109 kDa

$\beta$ -actin

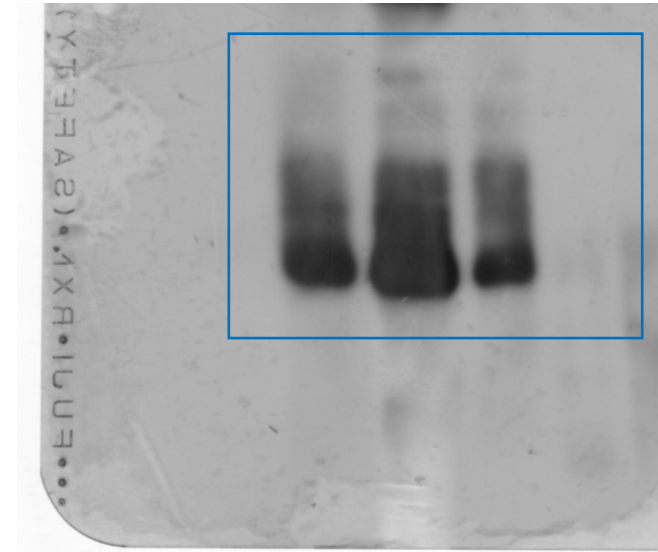


45 kDa

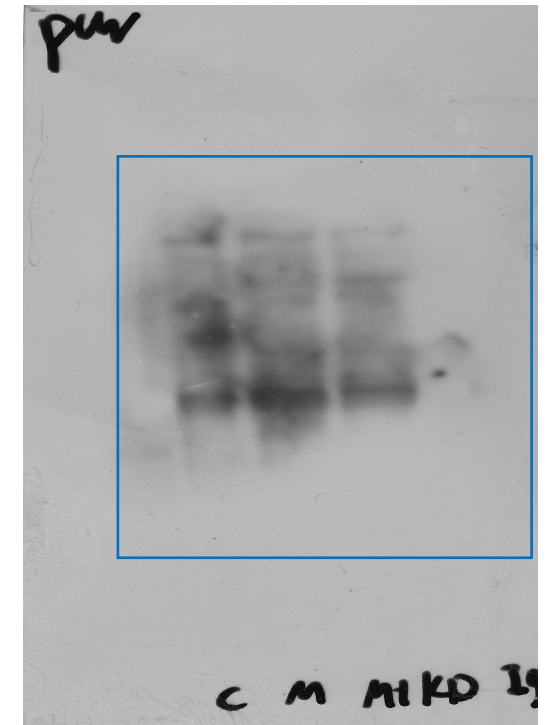
K

Ctrl, MNNG. MNNG+RNF146 siRNA, IgG

Ub

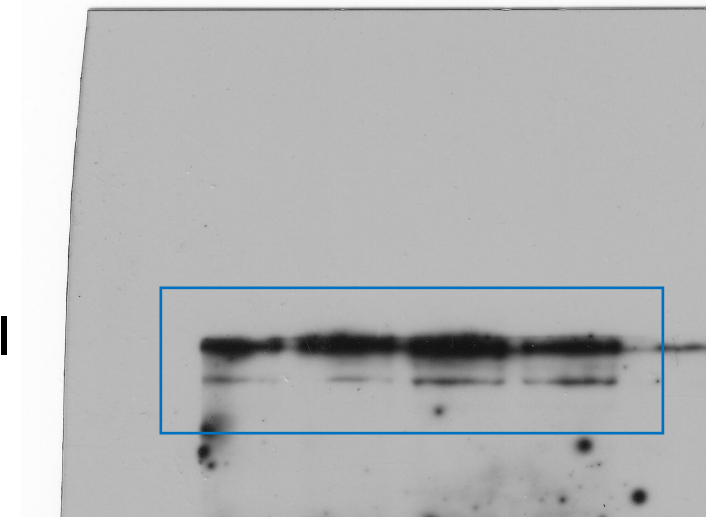


PAR



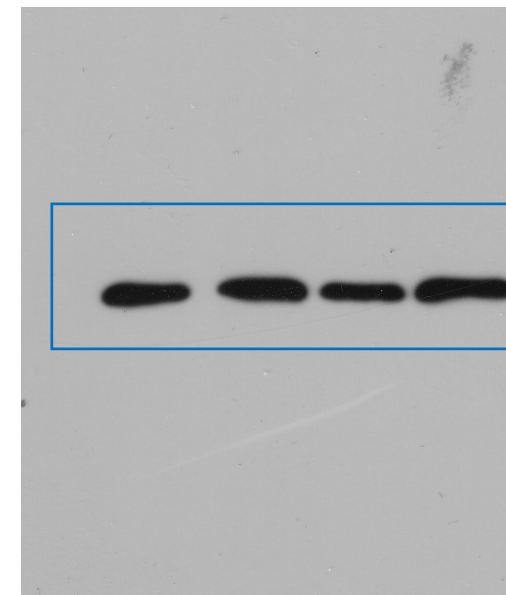
C M MNNG IgG

HK-I



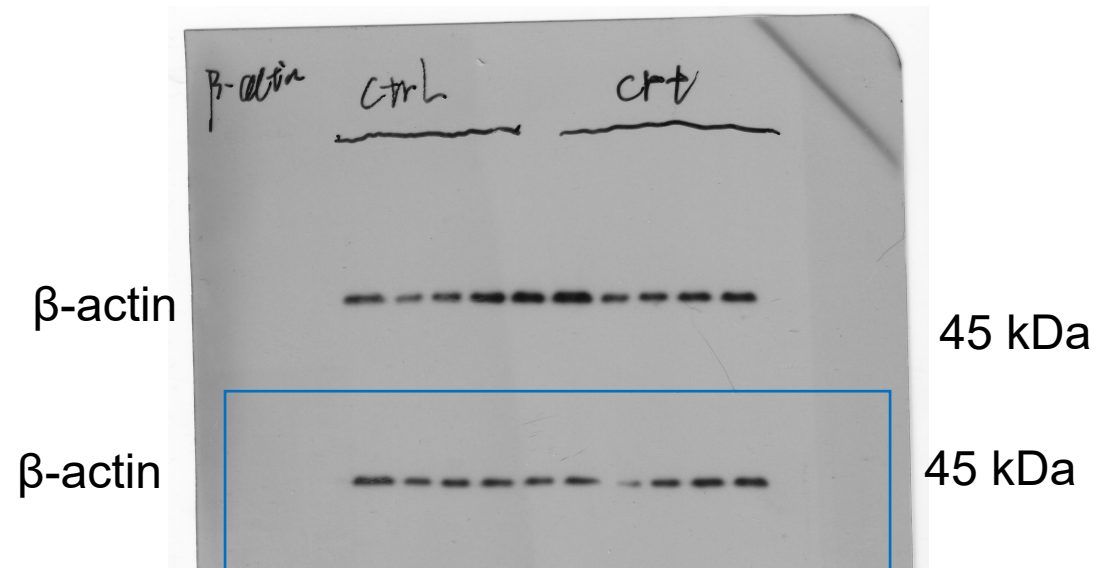
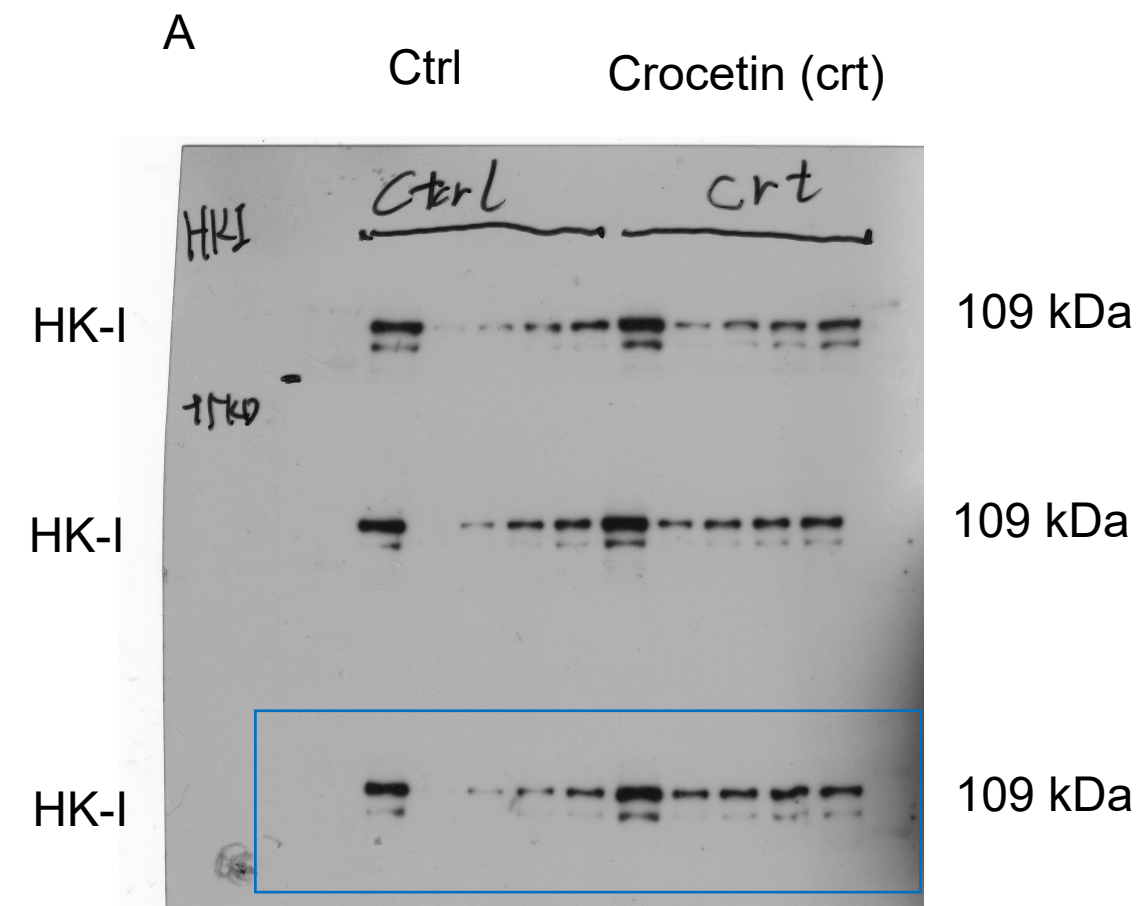
109 kDa

$\beta$ -actin



45 kDa

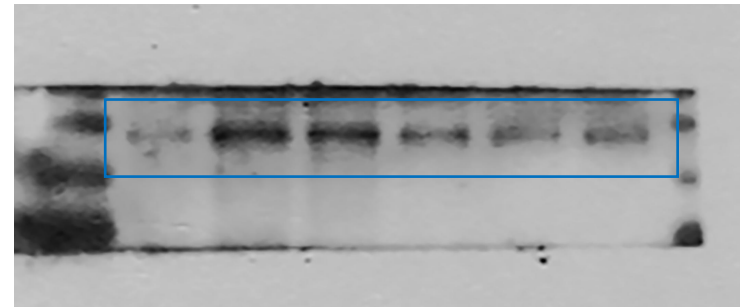
**Fig. 8**



**Fig.S1**

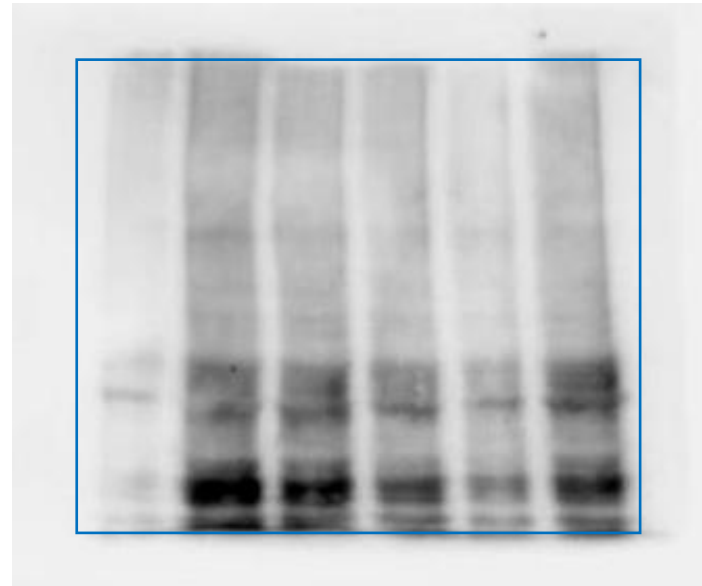
D Ctrl, OGD/R(4h). OGD/R(4h)+crocetin (5, 10, 25  $\mu$ M), OGD/R(4h)+PJ34

PARP-1

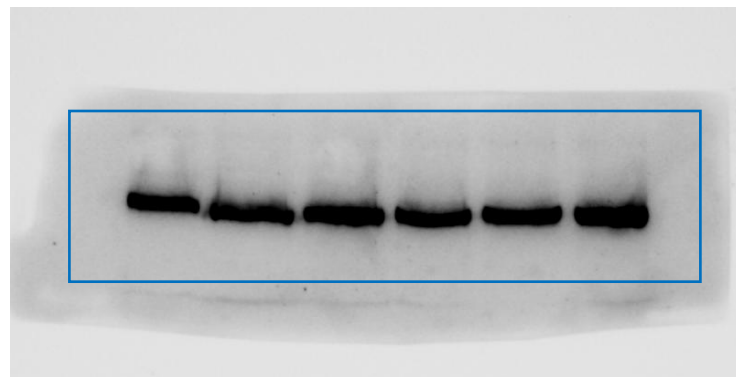


116 kDa

PAR



$\beta$ -actin



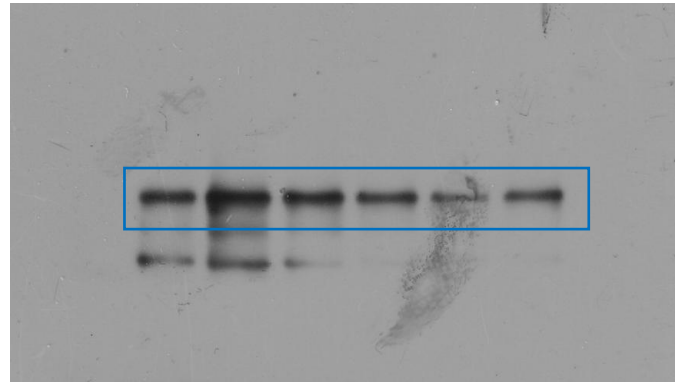
45 kDa



**Fig.S1**

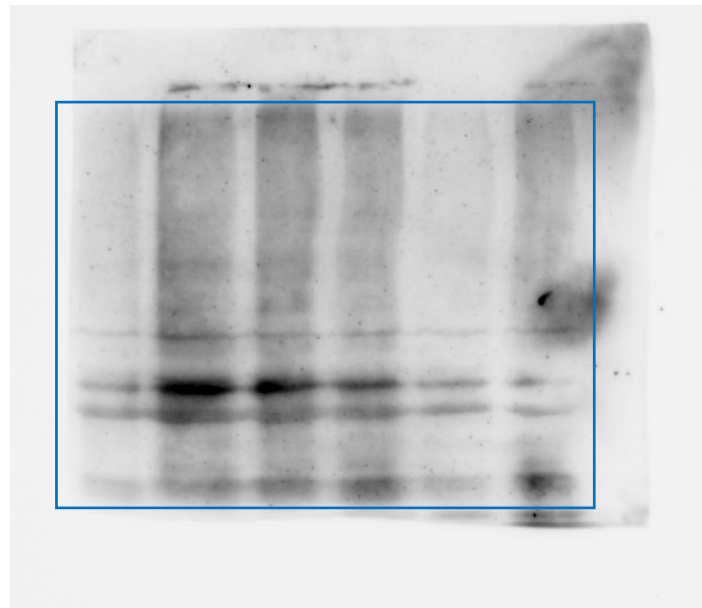
L Ctrl, OGD/R(24h). OGD/R(24h)+crocetin (5, 10, 25  $\mu$ M), OGD/R(24h)+PJ34

PARP-1

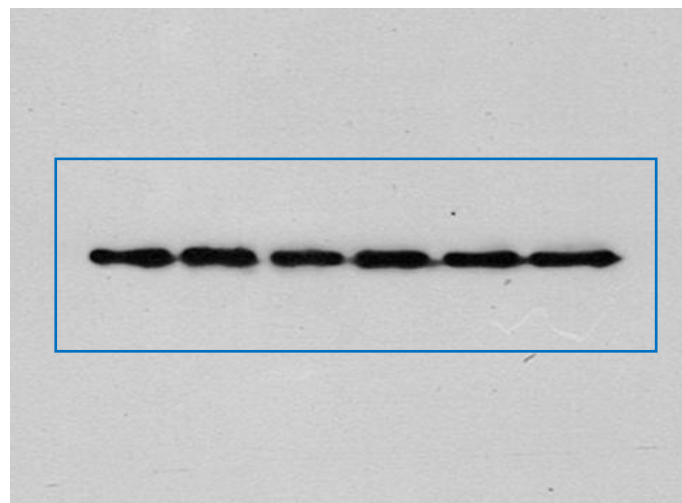


116 kDa

PAR



$\beta$ -actin



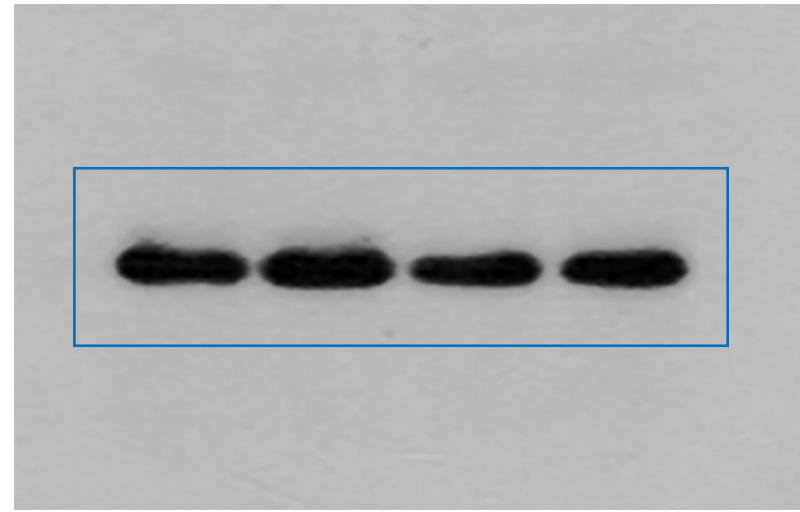
45 kDa

**Fig.S4**

Ctrl. MCAO, MCAO+crocic(20, 40 mg/kg).

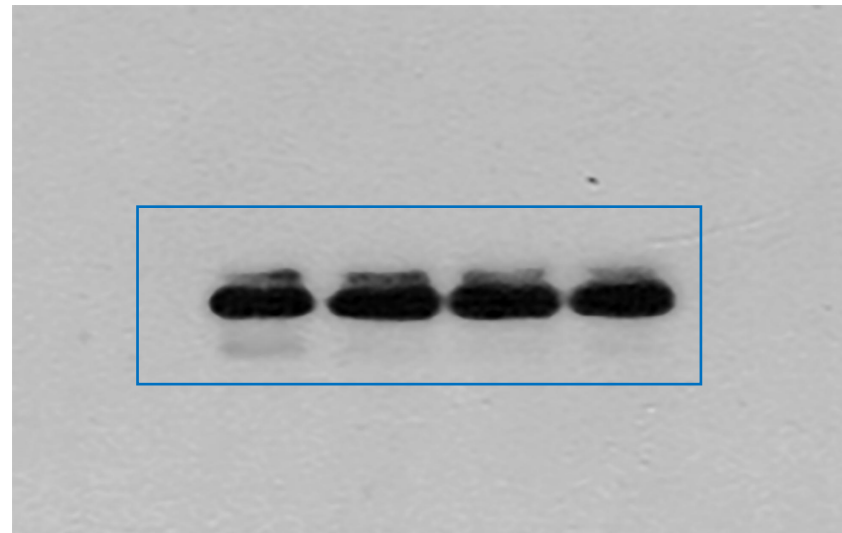
A

GPX4



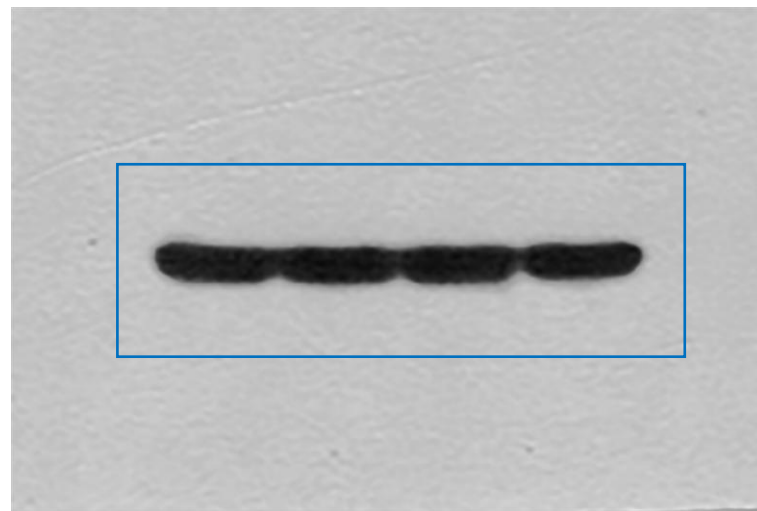
22 kDa

Ferritin heavy chain



21 kDa

$\beta$ -actin

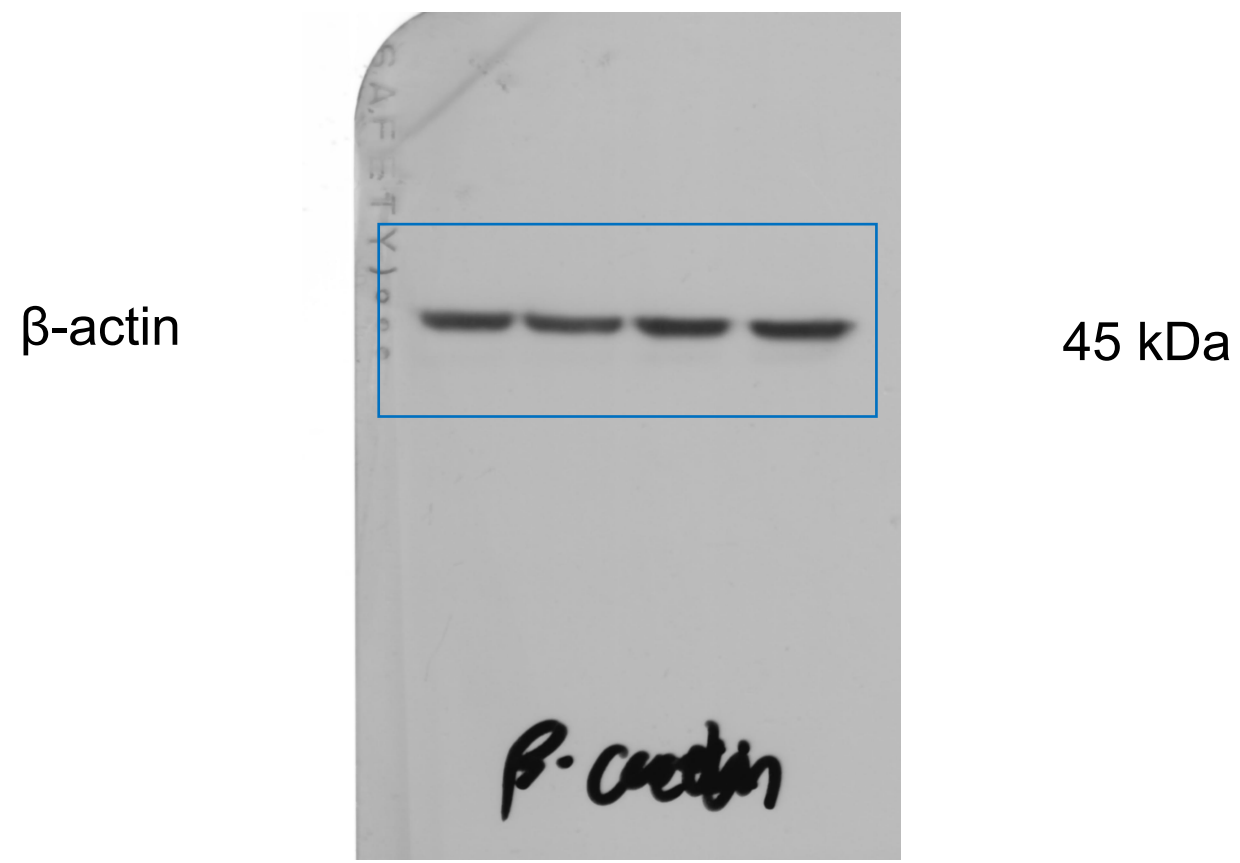
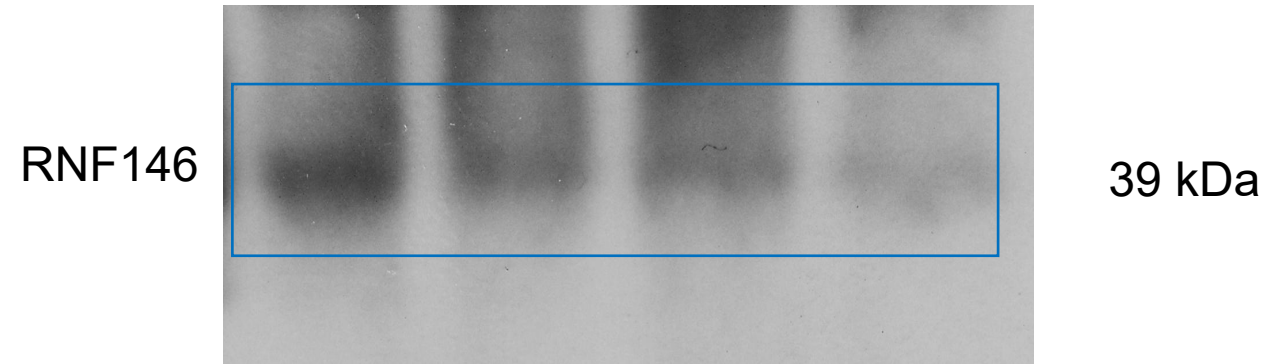


45 kDa

**Fig.S6**

**A**

RNF146 siRNA# (-, 1, 2, 3)



**B**

Crtl, MNNG, MNNG+NC siRNA

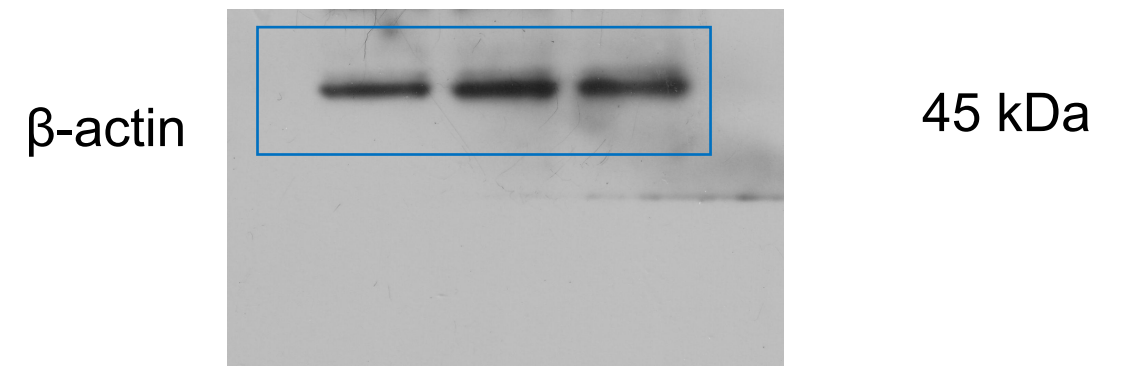
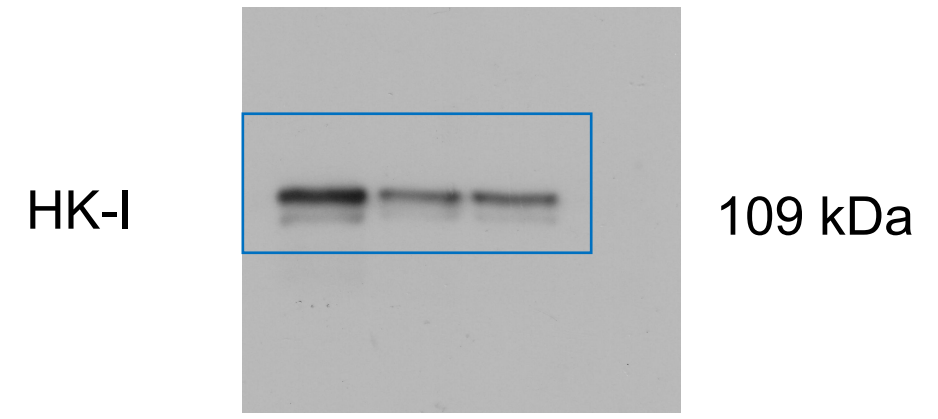
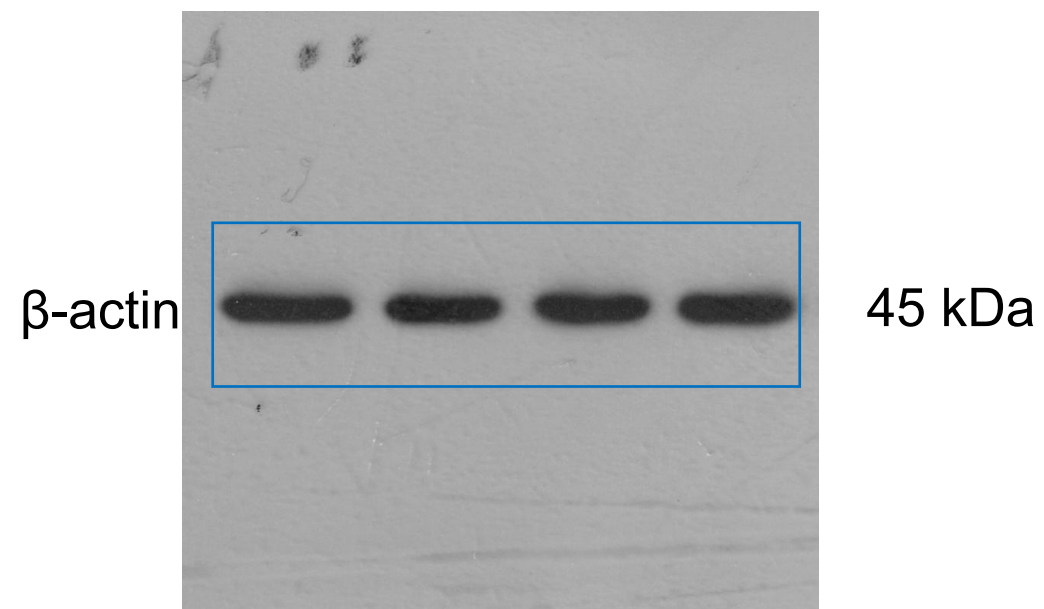
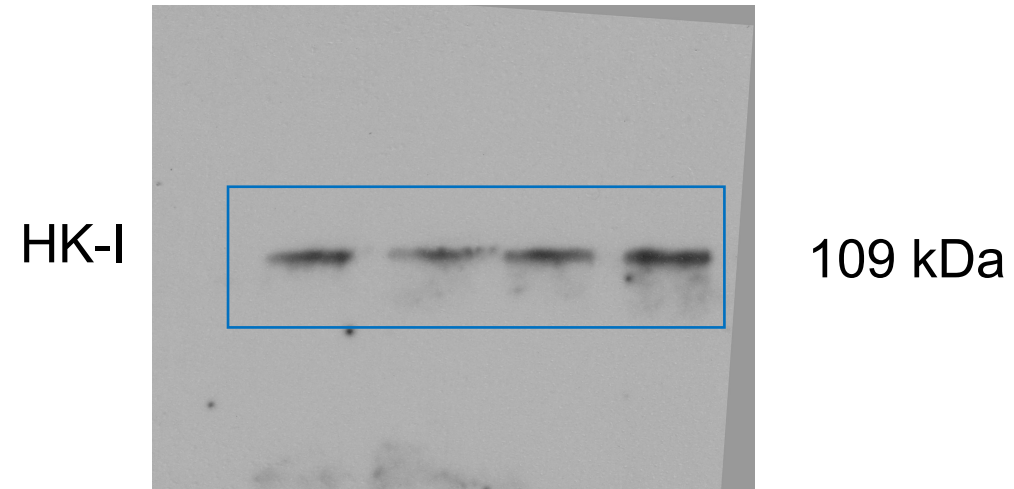


Fig. S7

**B** Ctrl. MCAO, MCAO+crocetin(20, 40 mg/kg).



**C**

