

Fig 1A

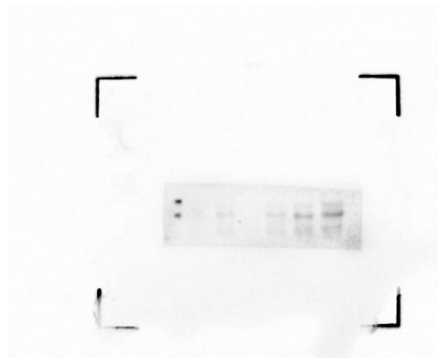
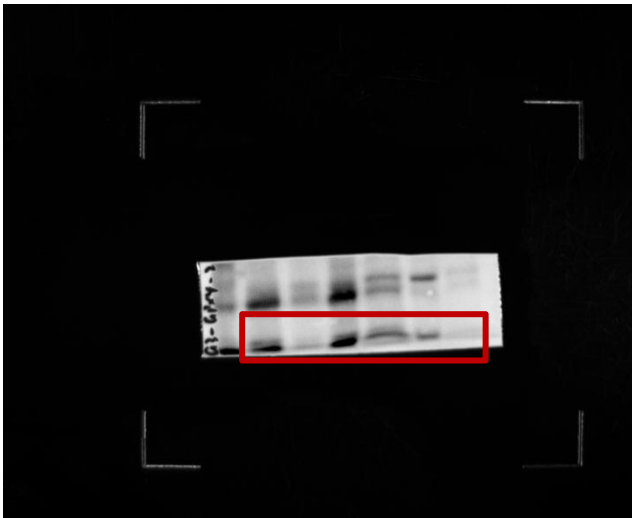
Fig 1A-NOX4 67kDa	
Groups From left to right:	Control; Puncture; Ip of AOPPs; Puncture+Ip of AOPPs; Puncture+Intradiscal RSA; Puncture+Intradiscal AOPPs
Fig 1A-AOPPs 65kDa	
Groups From left to right:	Control; Puncture; Ip of AOPPs; Puncture+Ip of AOPPs; Puncture+Intradiscal RSA; Puncture+Intradiscal AOPPs
Fig 1A-Alb 69kDa	
Groups From left to right:	Control; Puncture; Ip of AOPPs; Puncture+Ip of AOPPs; Puncture+Intradiscal RSA; Puncture+Intradiscal AOPPs

Fig 1A-TXNIP 50 kDa	
Groups From left to right:	Control; Puncture; Ip of AOPPs; Puncture+Ip of AOPPs; Puncture+Intradiscal RSA; Puncture+Intradiscal AOPPs
Fig 1A-FTH 21kDa	
Groups From left to right:	Control; Puncture; Ip of AOPPs; Puncture+Ip of AOPPs; Puncture+Intradiscal RSA; Puncture+Intradiscal AOPPs
Fig 1A-GPX4 22kDa	
Groups	Control; Puncture; Ip of AOPPs; Puncture+Ip of AOPPs;

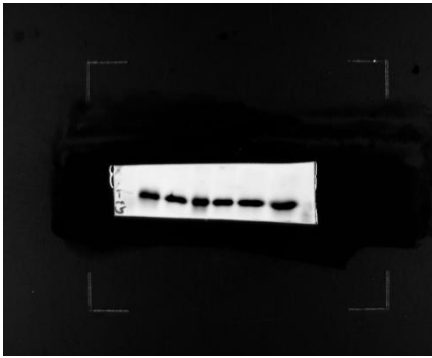
From left to right:	Puncture+Intradiscal RSA; Puncture+Intradiscal AOPPs
GAPDH 37kDa	
Groups From left to right:	Control; Puncture; Ip of AOPPs; Puncture+Ip of AOPPs; Puncture+Intradiscal RSA; Puncture+Intradiscal AOPPs

Fig 2A

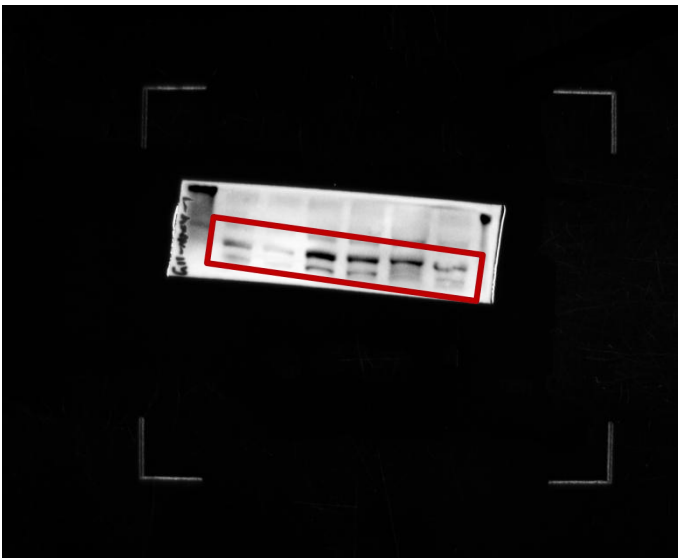
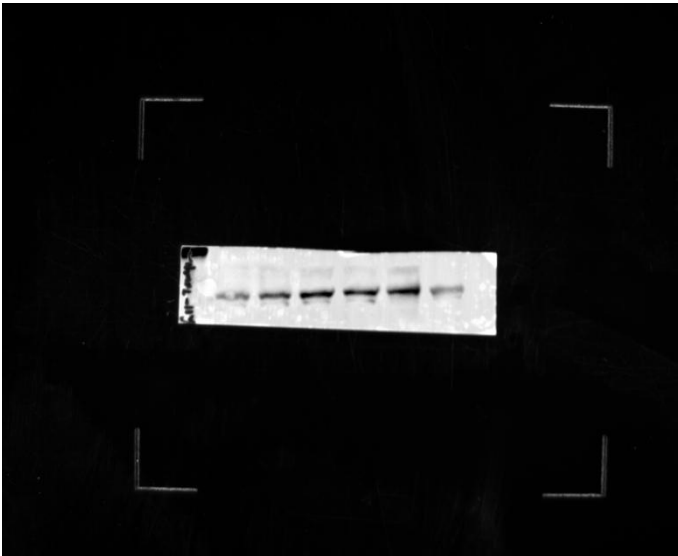
Fig 2A-NOX4 67kDa	
Groups From left to right:	Control; RSA; AOPPs; AOPPs+Ferrostatin-1; Erastin; Ferrostatin-1
Fig 2A-TXNIP 50 kDa	
Groups From left to right:	Control; RSA; AOPPs; AOPPs+Ferrostatin-1; Erastin; Ferrostatin-1

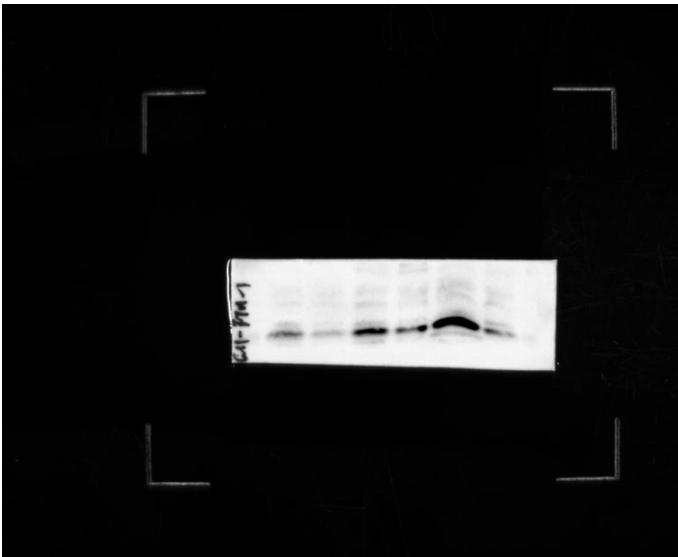
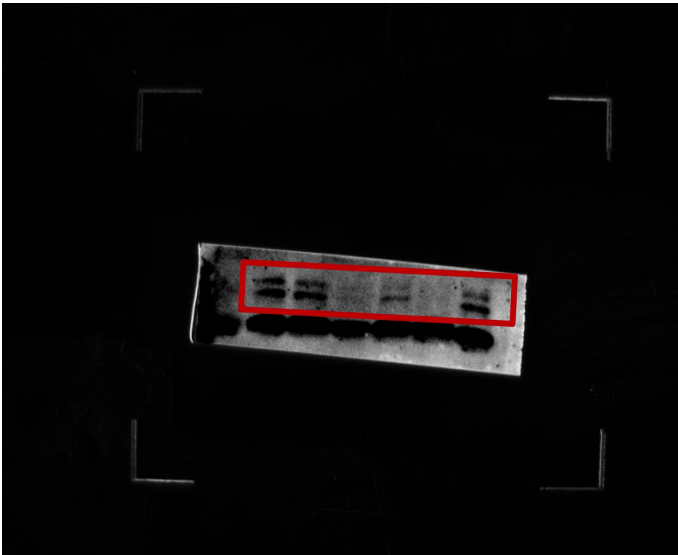
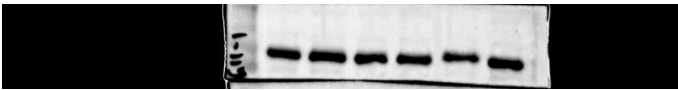
Fig 2A-FTH 21kDa	
Groups From left to right:	Control; RSA; AOPPs; AOPPs+Ferrostatin-1; Erastin; Ferrostatin-1
Fig 2A-GPX4 22kDa	
Groups From left to right:	Control; RSA; AOPPs; AOPPs+Ferrostatin-1; Erastin; Ferrostatin-1
Fig 2A-GAPDH 37kDa	
Groups From left to right:	Control; RSA; AOPPs; AOPPs+Ferrostatin-1; Erastin; Ferrostatin-1

Fig 3A

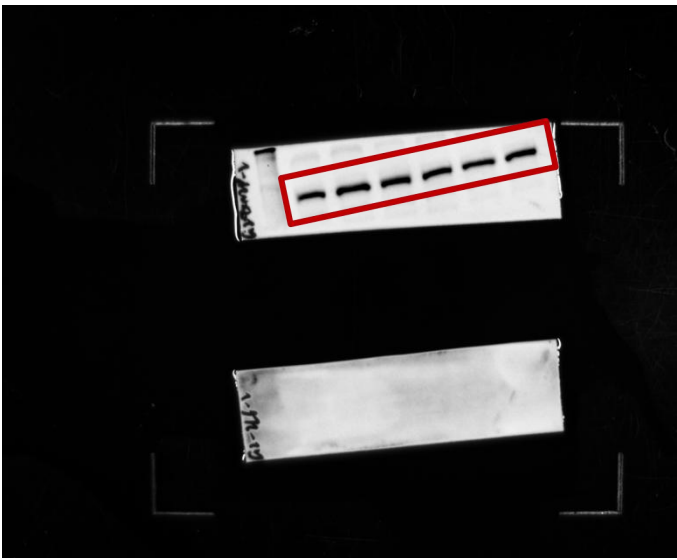
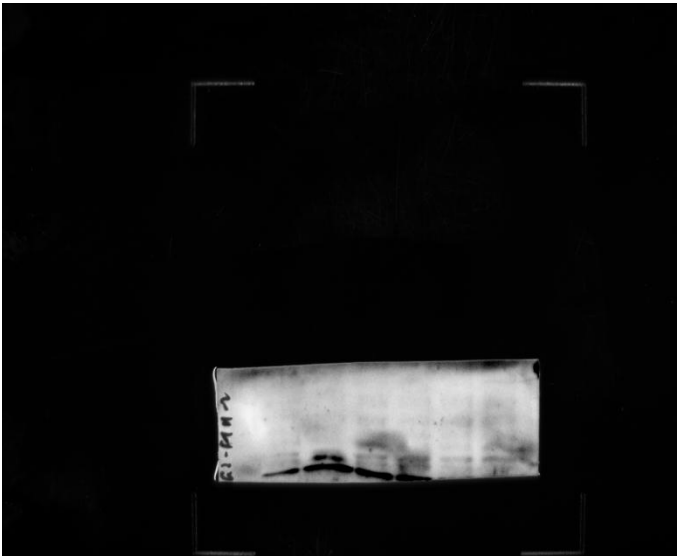
Fig 3A-TXNIP 50 kDa	
Groups From left to right:	Control; AOPPs; AOPPs+GKT; AOPPs+APO; GKT; APO
Fig 3A-FTH 21kDa	
Groups From left to right:	Control; AOPPs; AOPPs+GKT; AOPPs+APO; GKT; APO

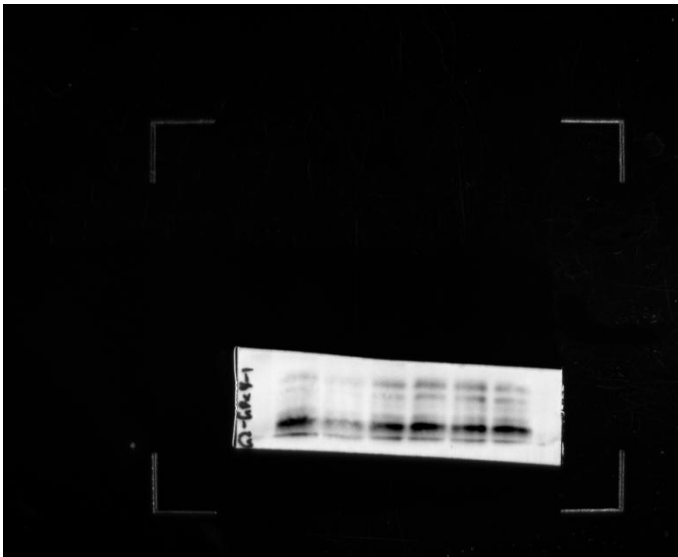
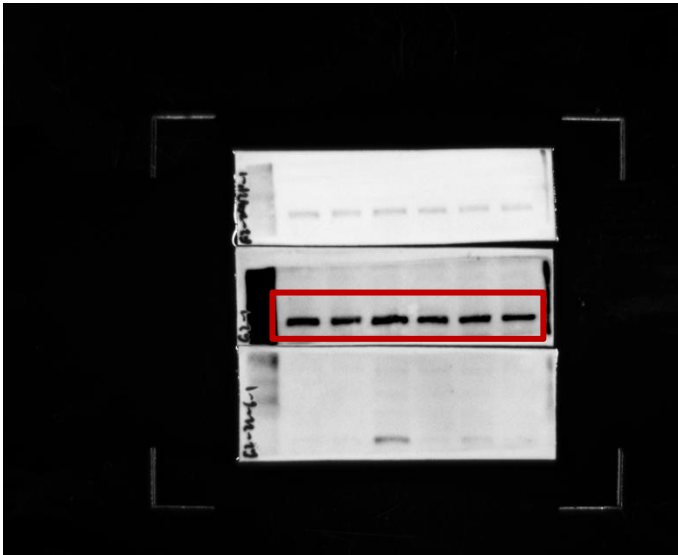
Fig 3A-GPX4 22kDa	
Groups From left to right:	Control; AOPPs; AOPPs+GKT; AOPPs+APO; GKT; APO
Fig 3A-GAPDH 37kDa	
Groups From left to right:	Control; AOPPs; AOPPs+GKT; AOPPs+APO; GKT; APO

Fig 4A

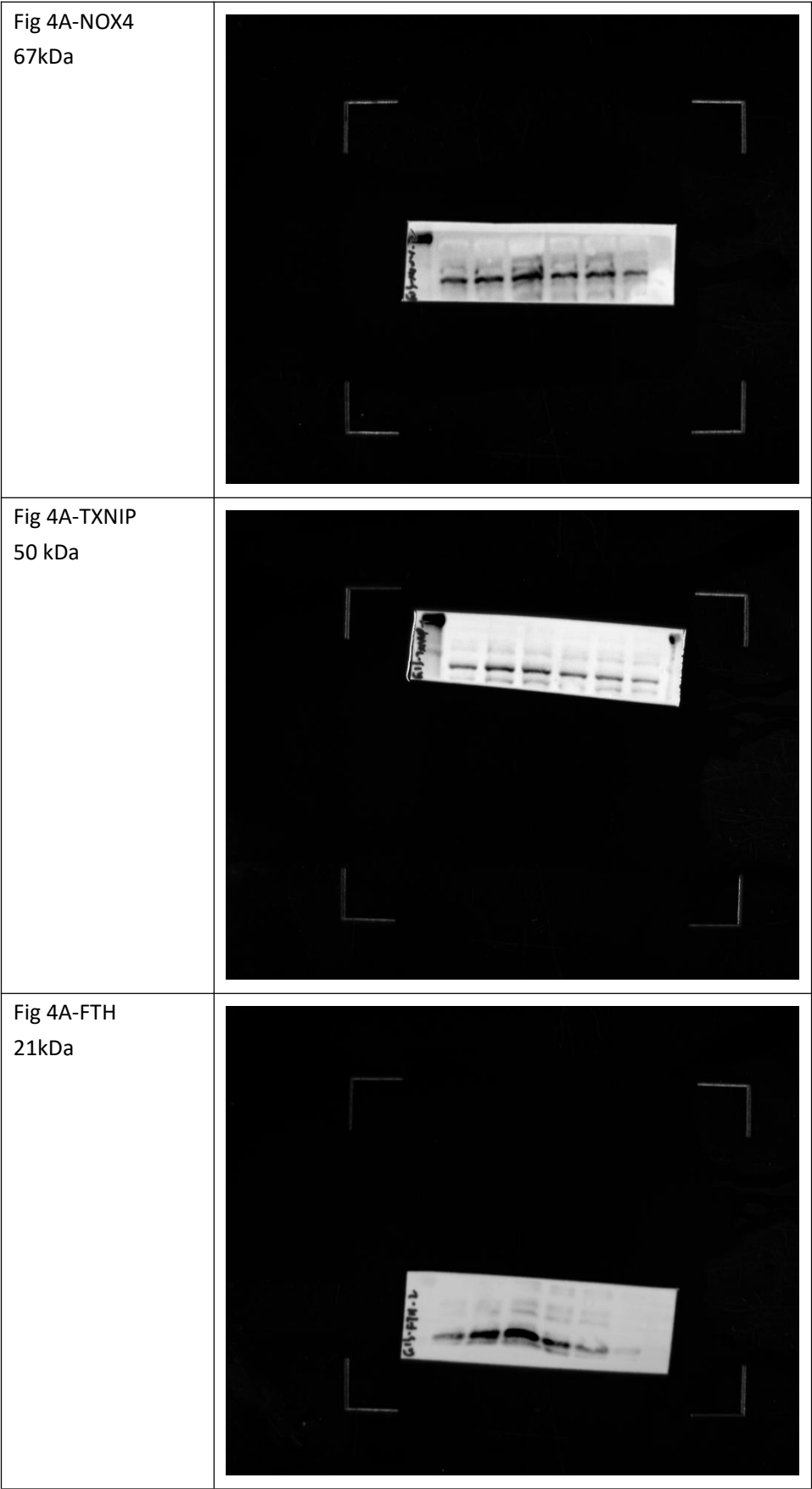
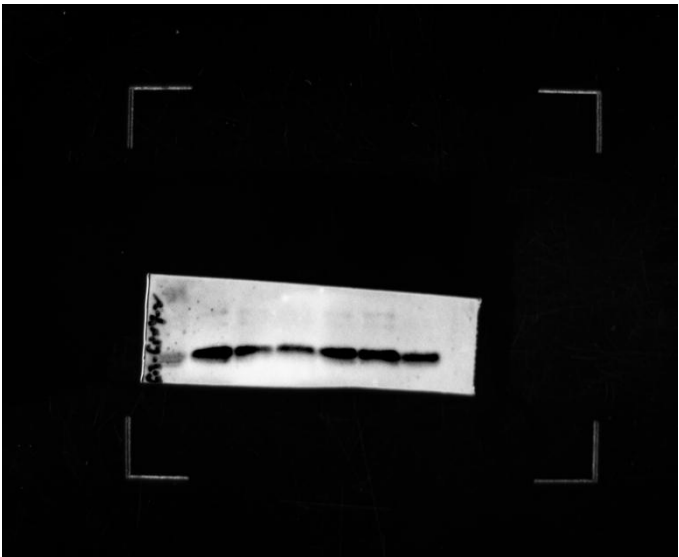
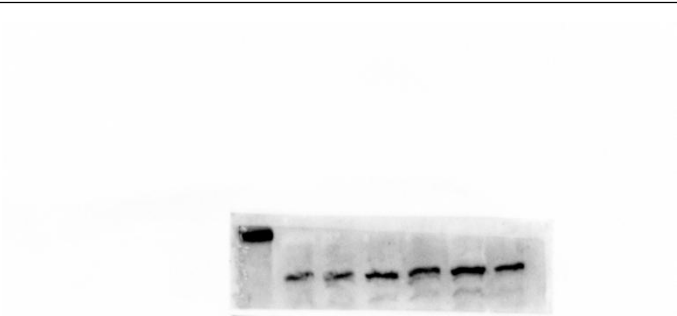
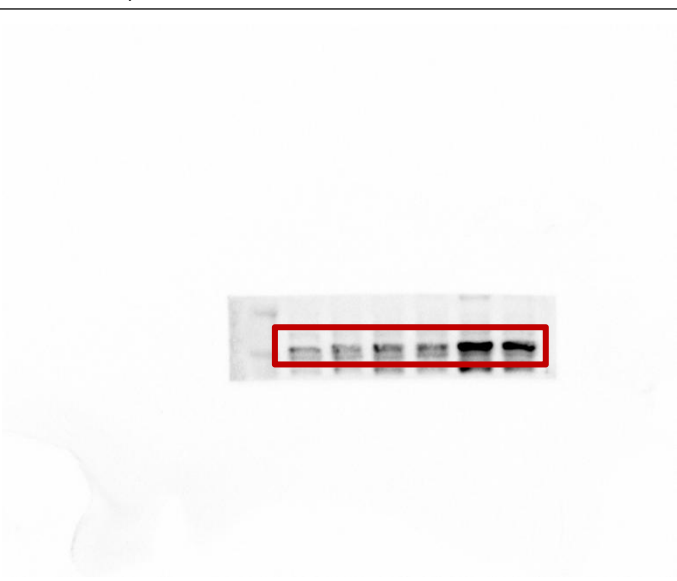
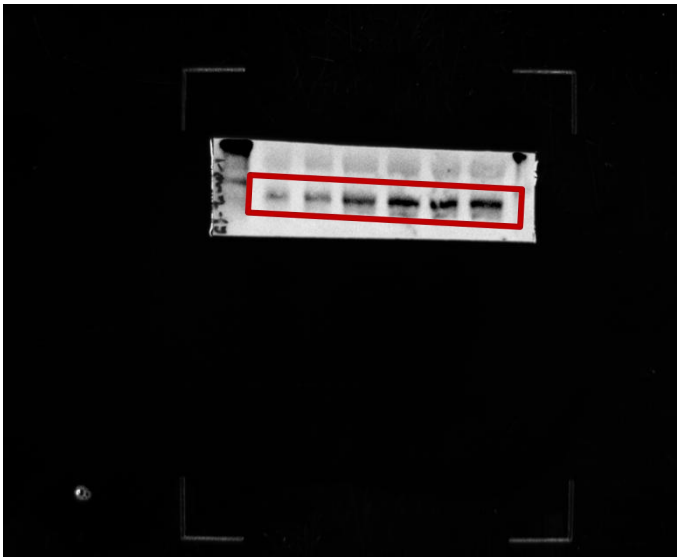
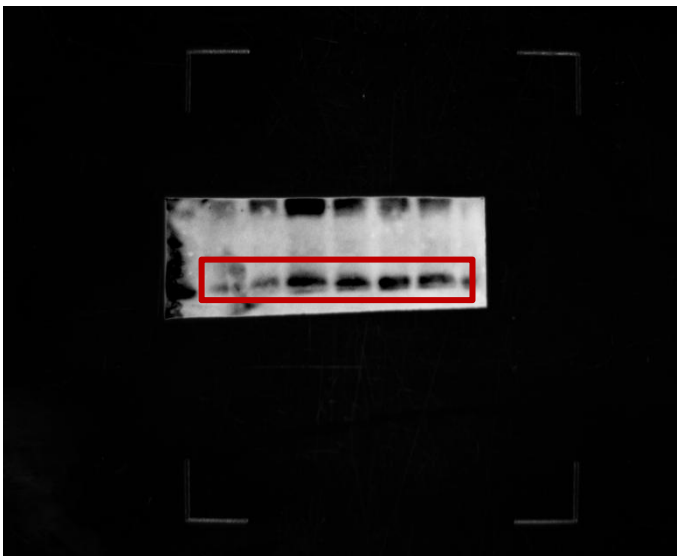
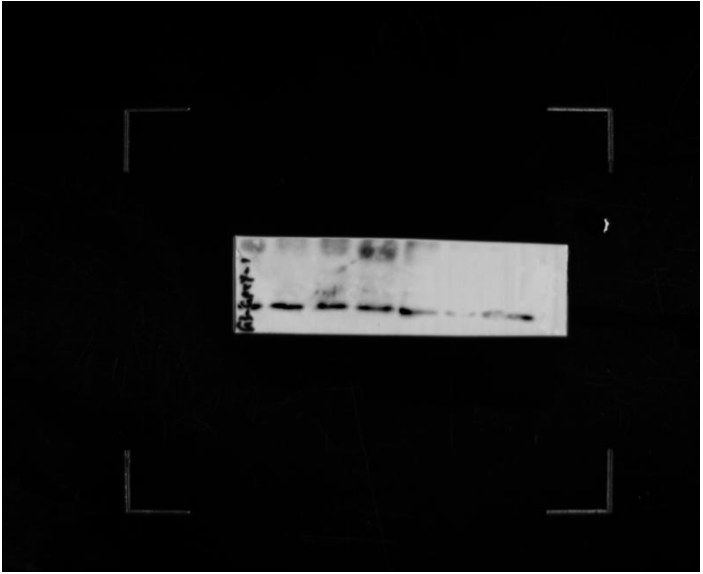
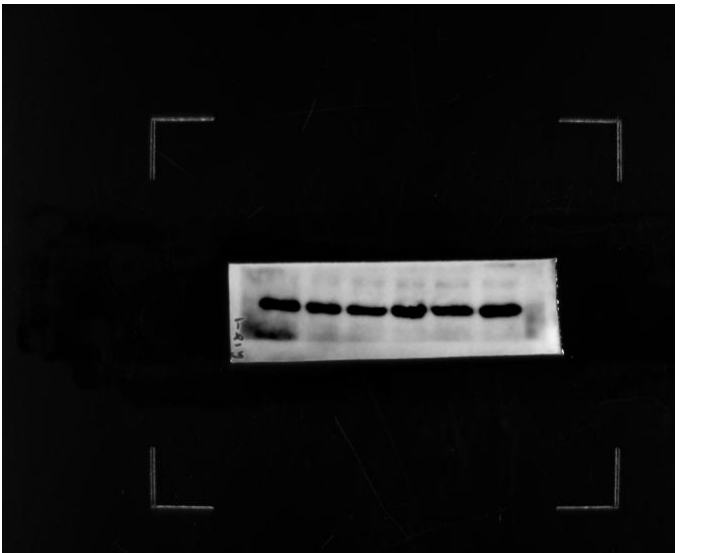


Fig 4A-GPX4 22kDa	
Fig 4A-GAPDH 37kDa	
Groups From left to right:	ADV-NC; ADV-NC+AOPPs; ADV-NC+Erastin; ADV-NOX4+AOPPs; ADV-NOX4+Erastin; ADV-NOX4

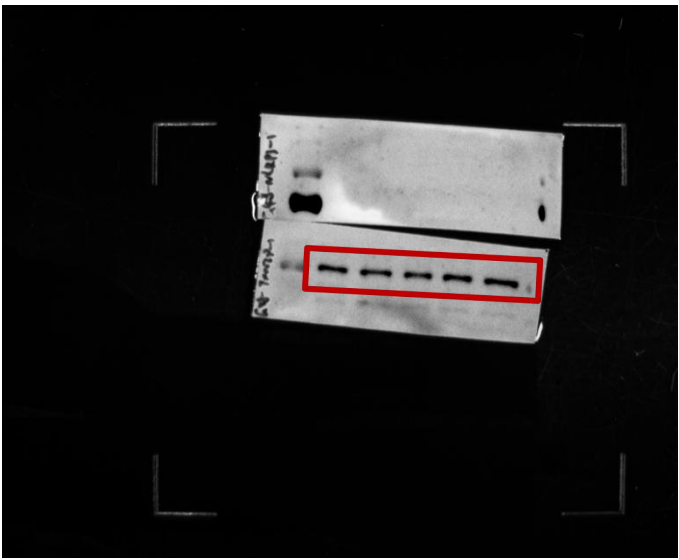
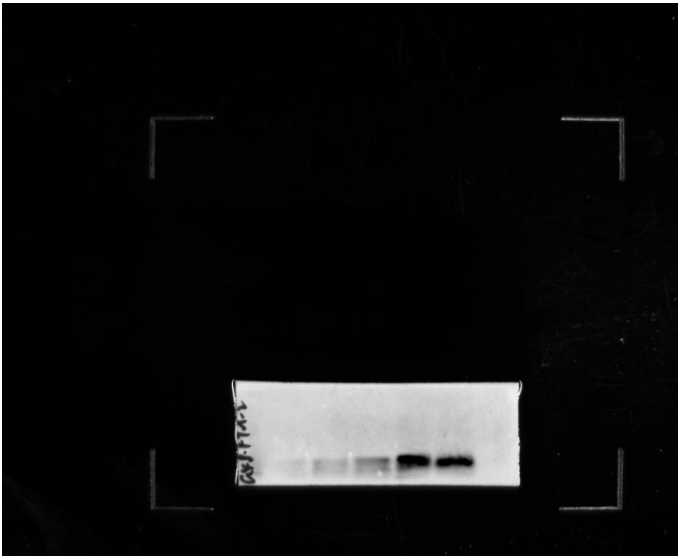
Supplementary Figure 1

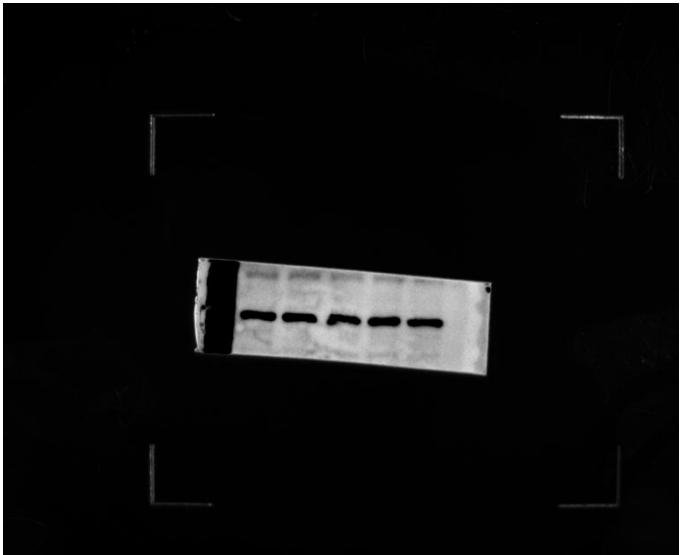
Supplementary Figure 1 -NOX4 67kDa	
Groups From left to right:	Once a month PBS; Twice a month PBS; Once a month AOPPs; Twice a month AOPPs; Once a month RSA; Twice a month RSA;
Supplementary Figure 1 -AOPPs 65kDa	
Groups From left to right:	Once a month PBS; Twice a month PBS; Once a month AOPPs; Twice a month AOPPs; Once a month RSA; Twice a month RSA;
Supplementary Figure 1 -Alb 69kDa	
Groups	Once a month PBS; Twice a month PBS; Once a month

From left to right:	AOPPs; Twice a month AOPPs; Once a month RSA; Twice a month RSA;
Supplementary Figure 1 -TXNIP 50 kDa	
Groups From left to right:	Once a month PBS; Twice a month PBS; Once a month AOPPs; Twice a month AOPPs; Once a month RSA; Twice a month RSA;
Supplementary Figure 1 -FTH 21kDa	
Groups From left to right:	Once a month PBS; Twice a month PBS; Once a month AOPPs; Twice a month AOPPs; Once a month RSA; Twice a month RSA;

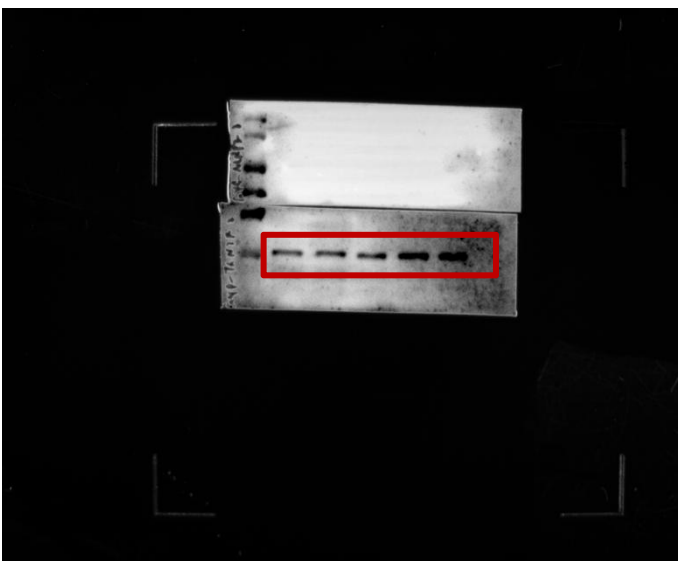
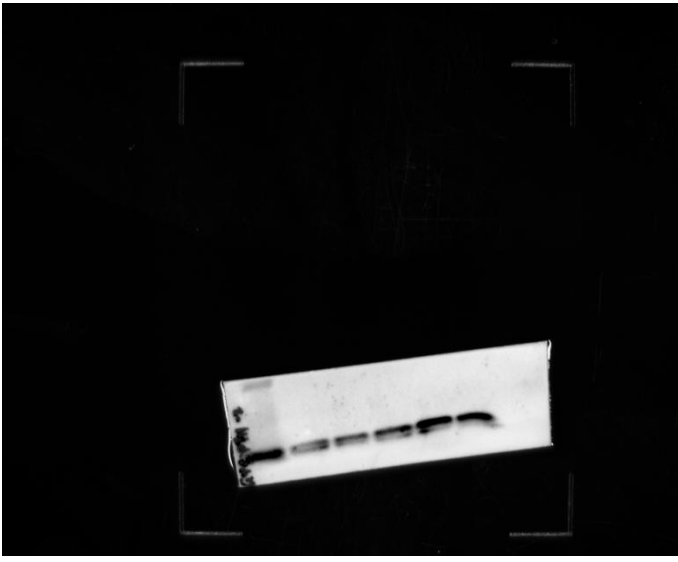
Supplementary Figure 1 -GPX4 22kDa	
Groups From left to right:	Once a month PBS; Twice a month PBS; Once a month AOPPs; Twice a month AOPPs; Once a month RSA; Twice a month RSA;
Supplementary Figure 1 -GAPDH 37kDa	
Groups From left to right:	Once a month PBS; Twice a month PBS; Once a month AOPPs; Twice a month AOPPs; Once a month RSA; Twice a month RSA;

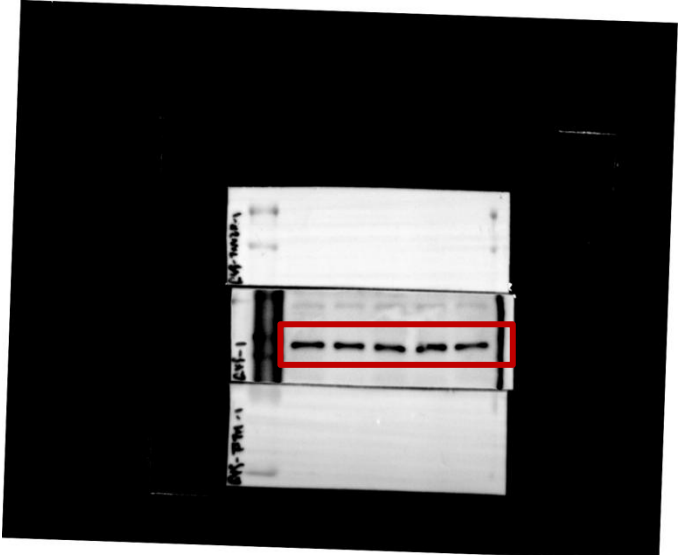
Supplementary Figure 2A

Supplementary Figure 2A-TXNIP 50 kDa	
Groups From left to right:	Control; RSA; 100; 200; 400
Supplementary Figure 2A-FTH 21kDa	
Groups From left to right:	Control; RSA; 100; 200; 400

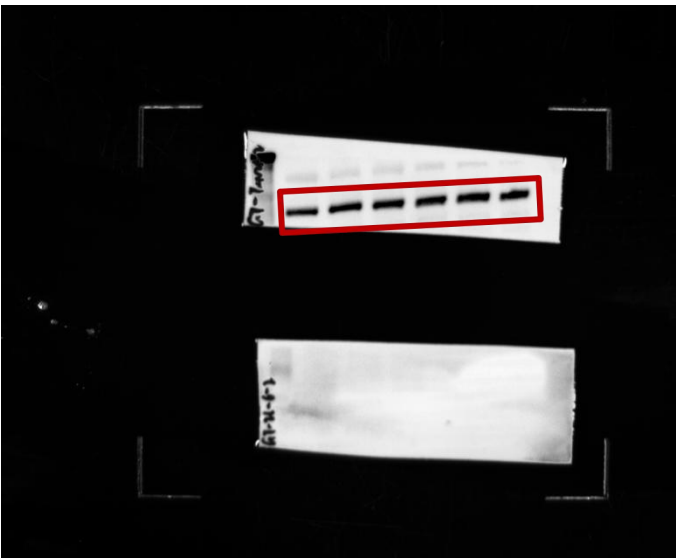
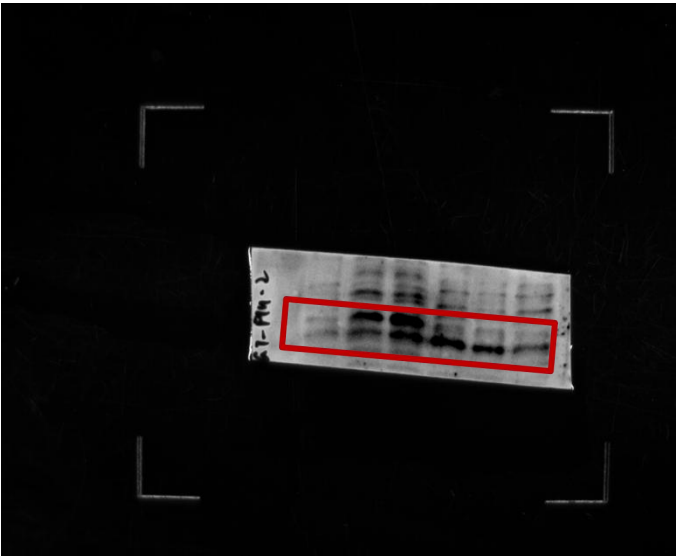
Supplementary Figure 2A-GPX4 22kDa	
Groups From left to right:	Control; RSA; 100; 200; 400
Supplementary Figure 2A-GAPDH 37kDa	
Groups From left to right:	Control; RSA; 100; 200; 400

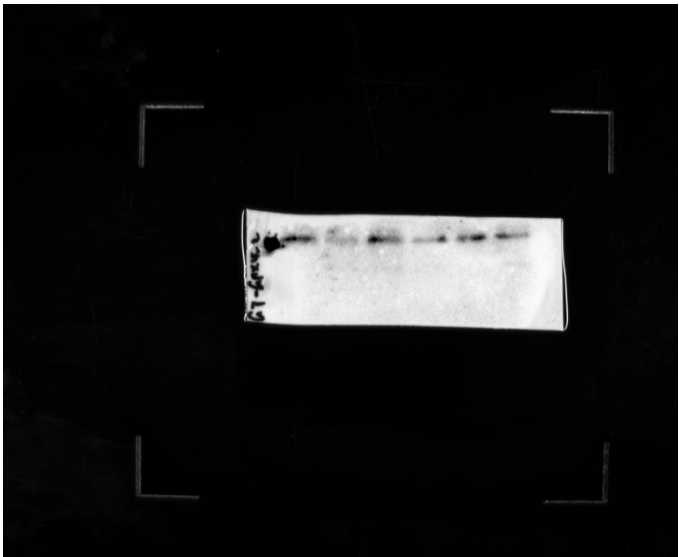
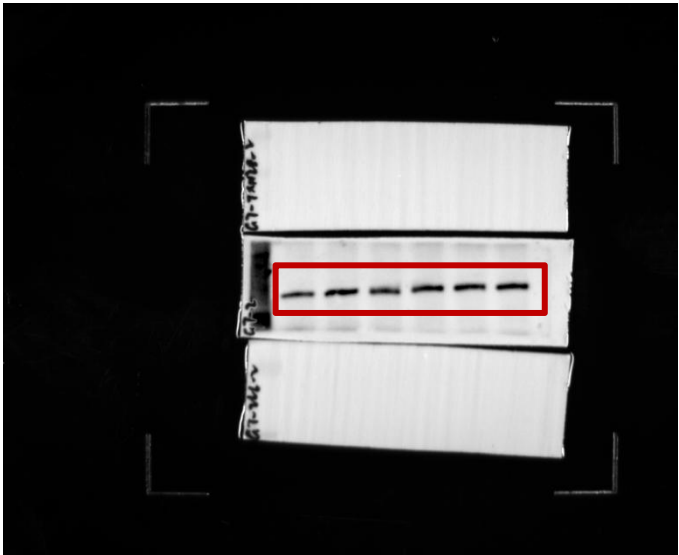
Supplementary Figure 2B

Supplementary Figure 2B-TXNIP 50 kDa	
Groups From left to right:	Control; RSA; 100; 200; 400
Supplementary Figure 2B-FTH 21kDa	
Groups From left to right:	Control; RSA; 100; 200; 400

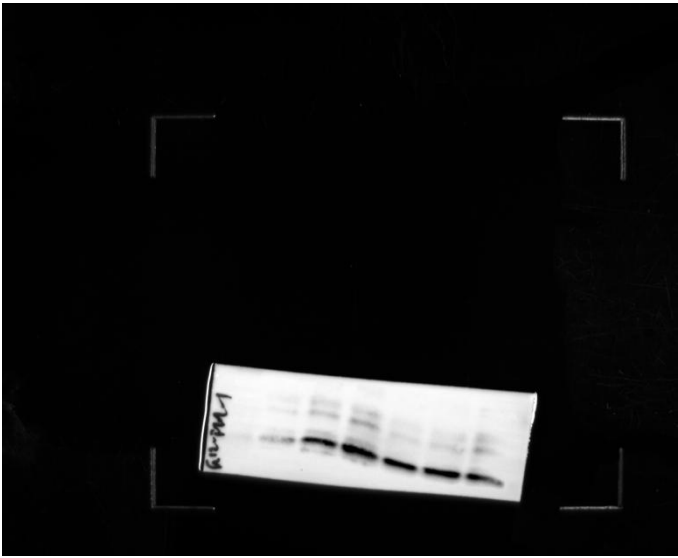
Supplementary Figure 2B-GPX4 22kDa	
Groups From left to right:	Control; RSA; 100; 200; 400
Supplementary Figure 2B-GAPDH 37kDa	
Groups From left to right:	Control; RSA; 100; 200; 400

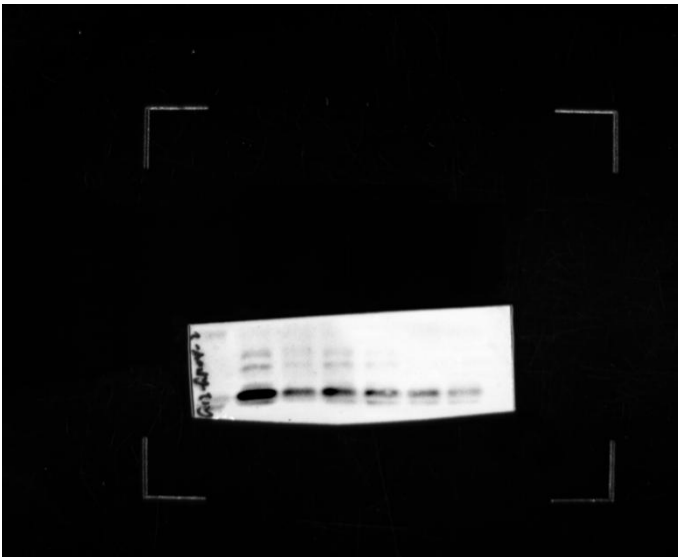
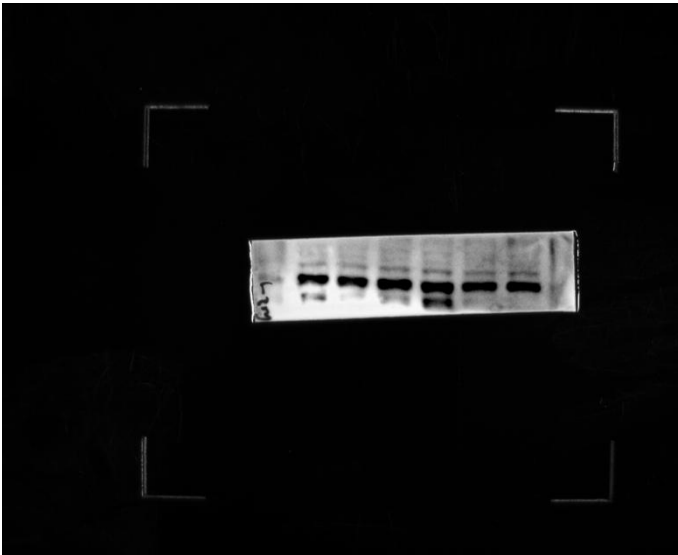
Supplementary Figure 2C

Supplementary Figure 2C-TXNIP 50 kDa	
Groups From left to right:	Control; 48h; 24h; 12h; 6h; 3h
Supplementary Figure 2C-FTH 21kDa	
Groups From left to right:	Control; 48h; 24h; 12h; 6h; 3h

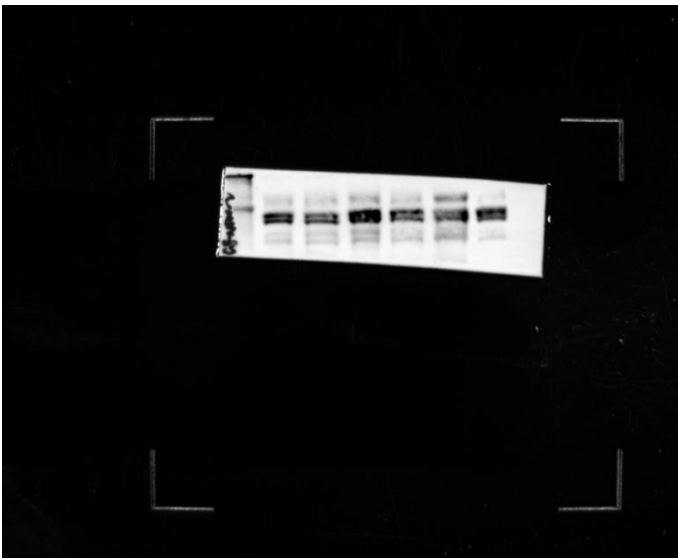
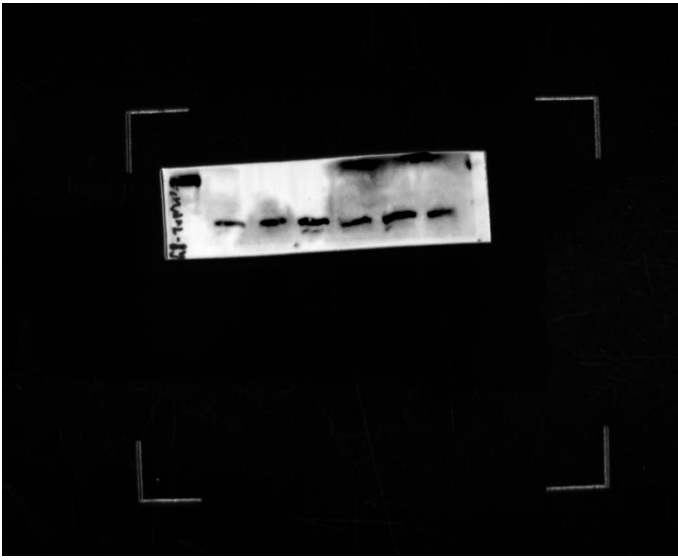
Supplementary Figure 2C-GPX4 22kDa	
Groups From left to right:	Control; 48h; 24h; 12h; 6h; 3h
Supplementary Figure 2C-GAPDH 37kDa	
Groups From left to right:	Control; 48h; 24h; 12h; 6h; 3h

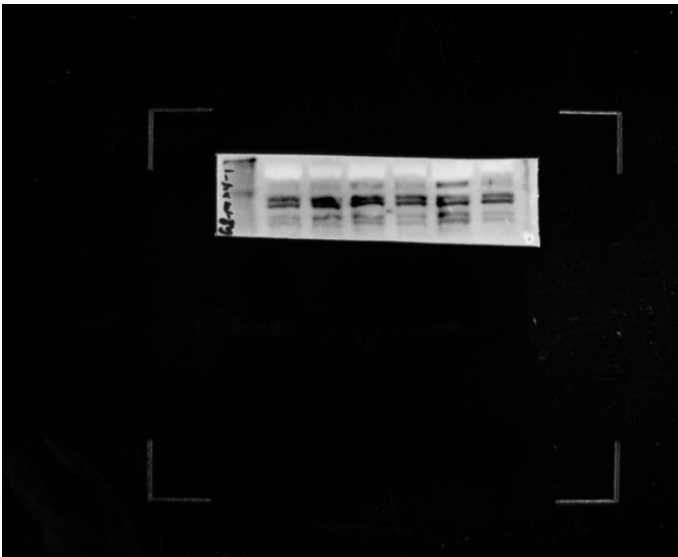
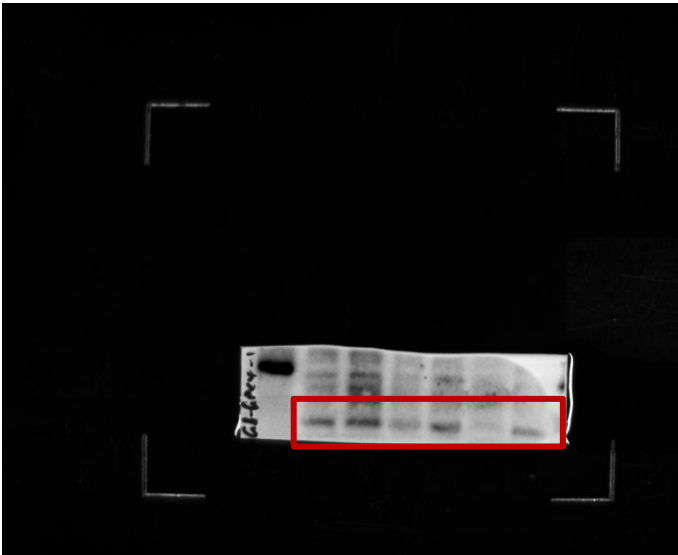
Supplementary Figure 2D

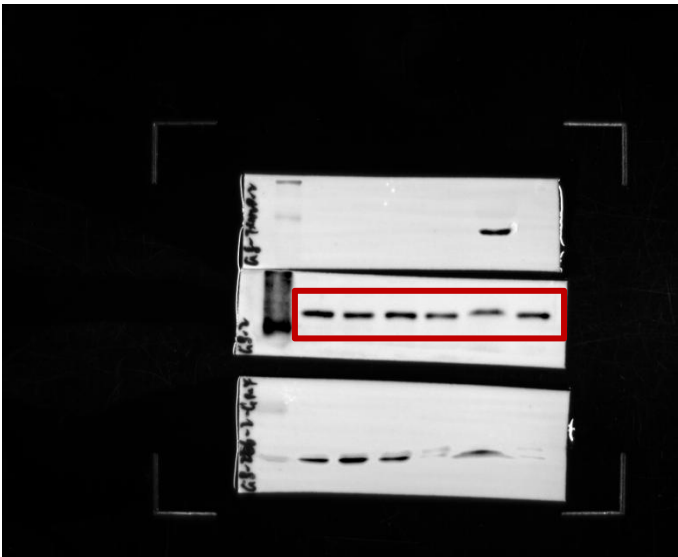
Supplementary Figure 2D-TXNIP 50 kDa	
Groups From left to right:	Control; 48h; 24h; 12h; 6h; 3h
Supplementary Figure 2D-FTH 21kDa	
Groups From left to right:	Control; 48h; 24h; 12h; 6h; 3h

Supplementary Figure 2D-GPX4 22kDa	
Groups From left to right:	Control; 48h; 24h; 12h; 6h; 3h
Supplementary Figure 2D-GAPDH 37kDa	
Groups From left to right:	Control; 48h; 24h; 12h; 6h; 3h

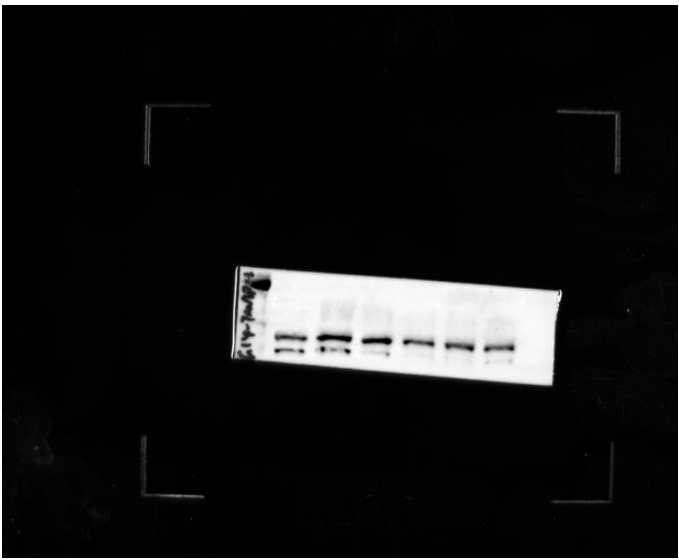
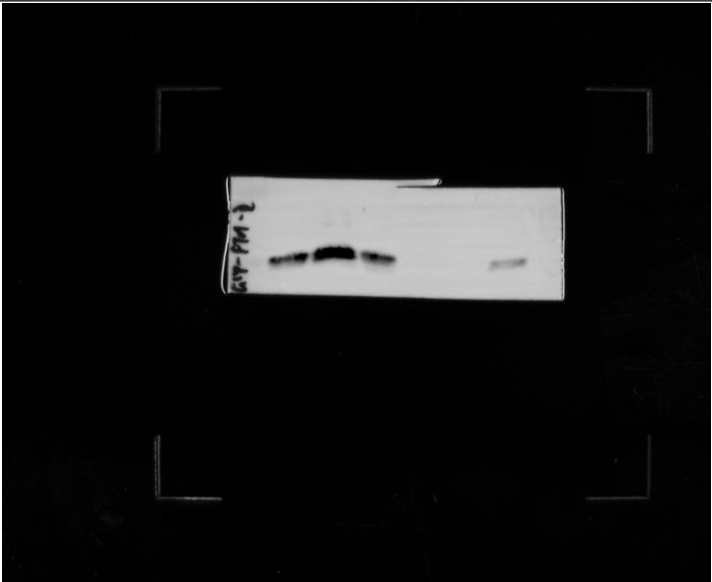
Supplementary Figure 2E

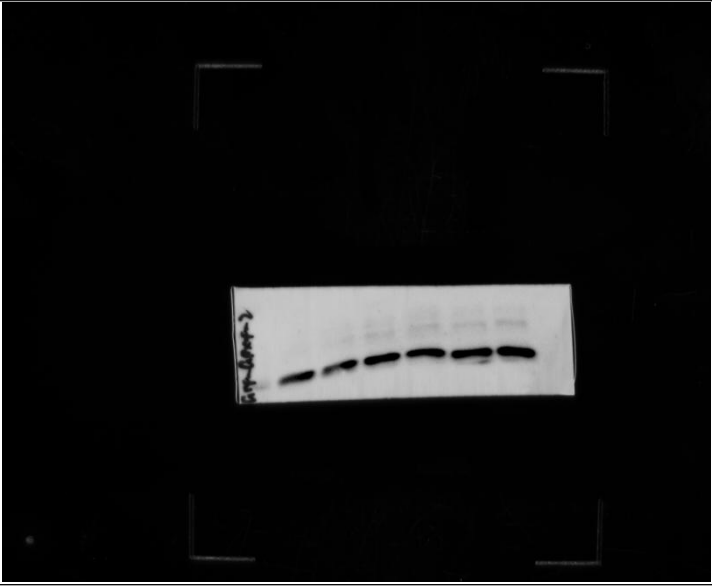
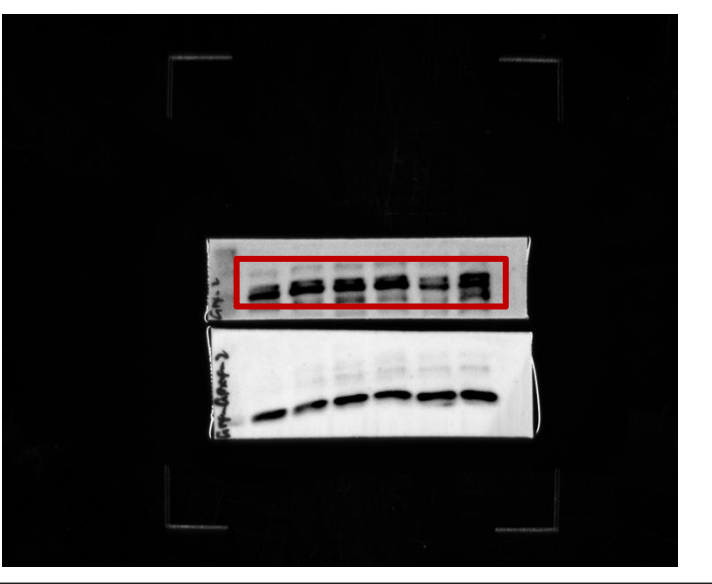
Supplementary Figure 2E-NOX4 67kDa	
Groups From left to right:	Control; RSA; AOPPs; AOPPs+Ferrostatin-1; Erastin; Ferrostatin-1
Supplementary Figure 2E-TXNIP 50 kDa	
Groups From left to right:	Control; RSA; AOPPs; AOPPs+Ferrostatin-1; Erastin; Ferrostatin-1

Supplementary Figure 2E-FTH 21kDa	
Groups From left to right:	Control; RSA; AOPPs; AOPPs+Ferrostatin-1; Erastin; Ferrostatin-1
Supplementary Figure 2E-GPX4 22kDa	
Groups From left to right:	Control; RSA; AOPPs; AOPPs+Ferrostatin-1; Erastin; Ferrostatin-1

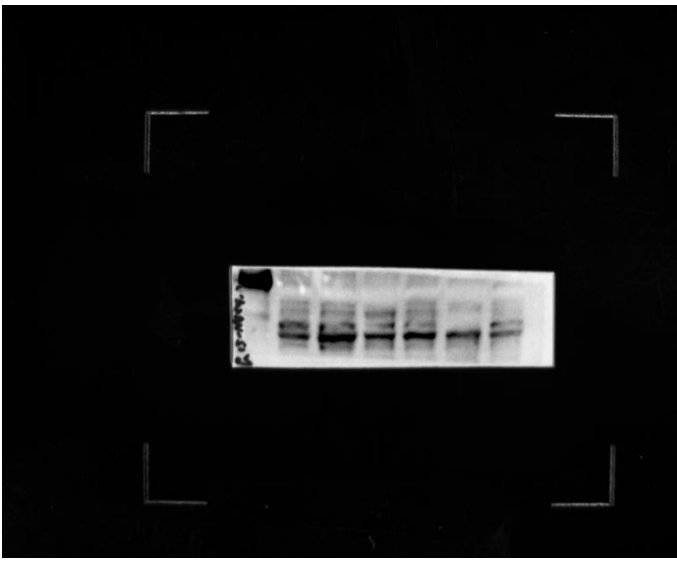
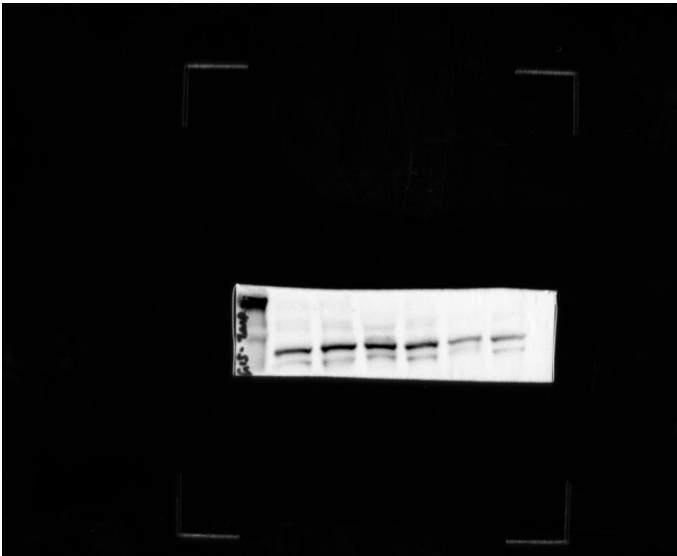
Supplementary Figure 2E-GAPDH 37kDa	
Groups From left to right:	Control; RSA; AOPPs; AOPPs+Ferrostatin-1; Erastin; Ferrostatin-1

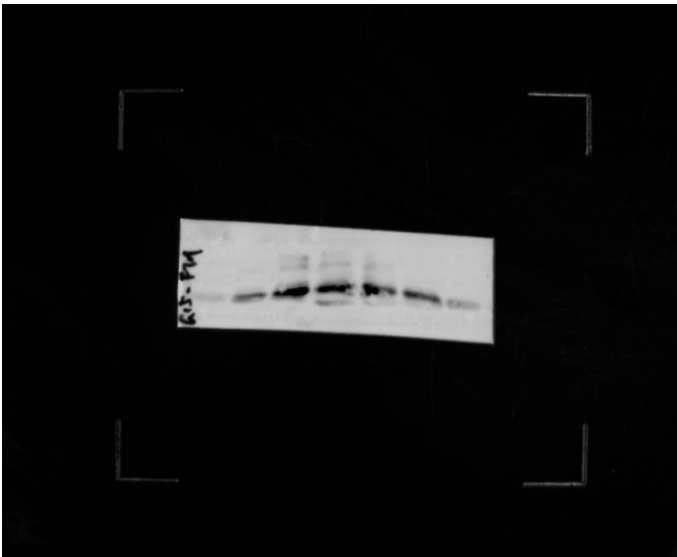
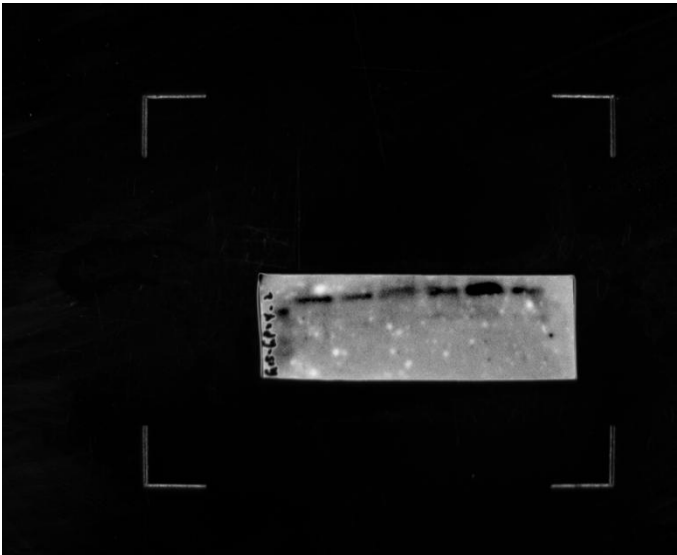
Supplementary Figure 3

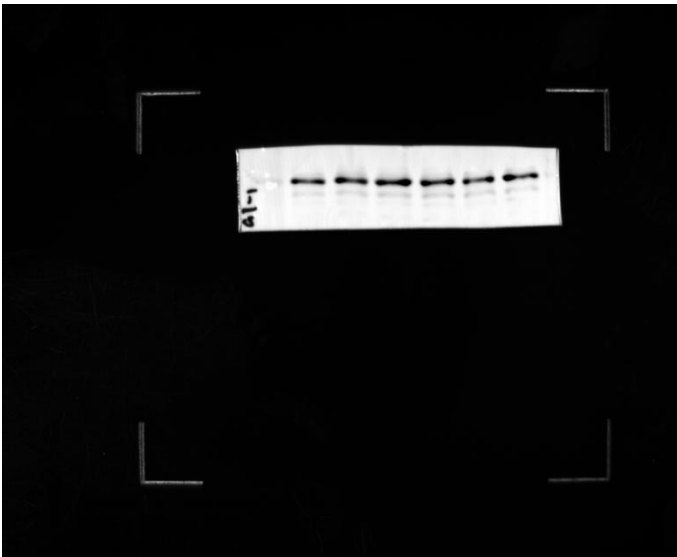
Supplementary Figure 3-TXNIP 50 kDa	
Groups From left to right:	Control; AOPPs; AOPPs+GKT; AOPPs+APO; GKT; APO
Supplementary Figure 3-FTH 21kDa	
Groups From left to right:	Control; AOPPs; AOPPs+GKT; AOPPs+APO; GKT; APO

Supplementary Figure 3-GPX4 22kDa	
Groups From left to right:	Control; AOPPs; AOPPs+GKT; AOPPs+APO; GKT; APO
Supplementary Figure 3-GAPDH 37kDa	
Groups From left to right:	Control; AOPPs; AOPPs+GKT; AOPPs+APO; GKT; APO

Supplementary Figure 4B

Supplementary Figure 4B-NOX4 67kDa	
Groups From left to right:	ADV-NC; ADV-NC+AOPPs; ADV-NC+Erastin; ADV-NOX4+AOPPs; ADV-NOX4+Erastin; ADV-NOX4
Supplementary Figure 4B-TXNIP 50 kDa	
Groups From left to right:	ADV-NC; ADV-NC+AOPPs; ADV-NC+Erastin; ADV-NOX4+AOPPs; ADV-NOX4+Erastin; ADV-NOX4

Supplementary Figure 4B-FTH 21kDa	
Groups From left to right:	ADV-NC; ADV-NC+AOPPs; ADV-NC+Erastin; ADV-NOX4+AOPPs; ADV-NOX4+Erastin; ADV-NOX4
Supplementary Figure 4B-GPX4 22kDa	
Groups From left to right:	ADV-NC; ADV-NC+AOPPs; ADV-NC+Erastin; ADV-NOX4+AOPPs; ADV-NOX4+Erastin; ADV-NOX4

Supplementary Figure 4B-GAPDH 37kDa	
Groups From left to right:	ADV-NC; ADV-NC+AOPPs; ADV-NC+Erastin; ADV-NOX4+AOPPs; ADV-NOX4+Erastin; ADV-NOX4