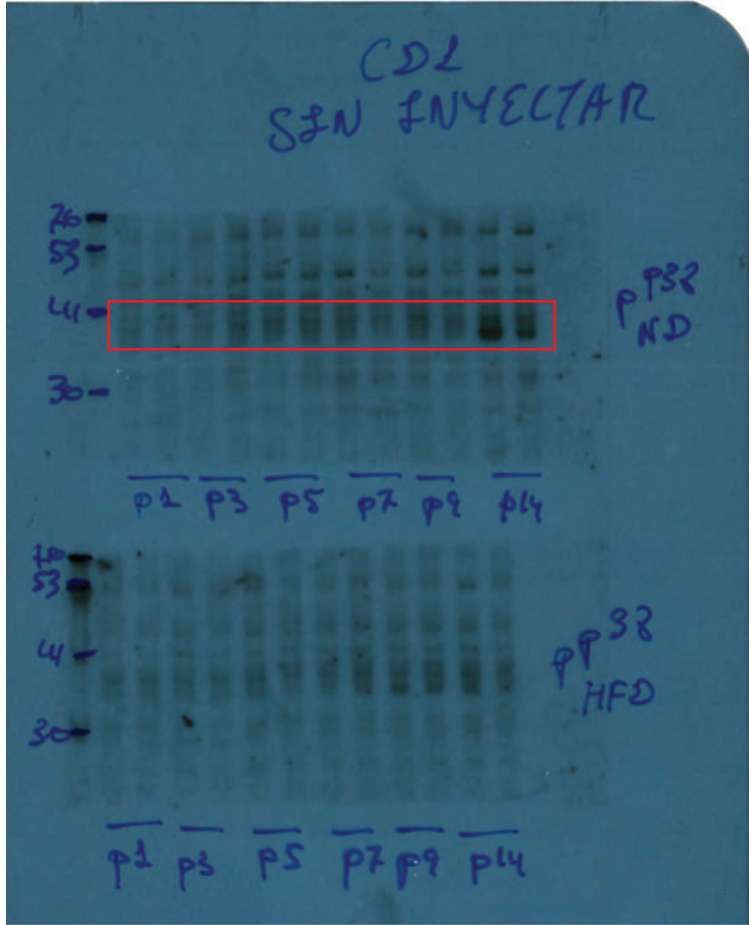
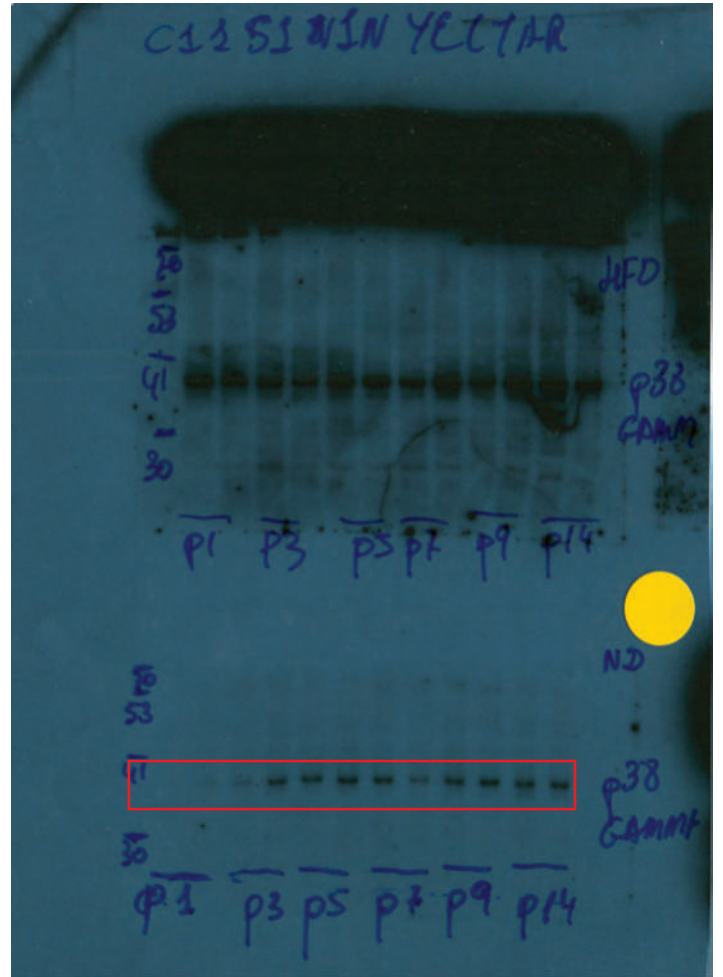


Figure 1A

p-p38 $\delta$   
p-p38 $\gamma$

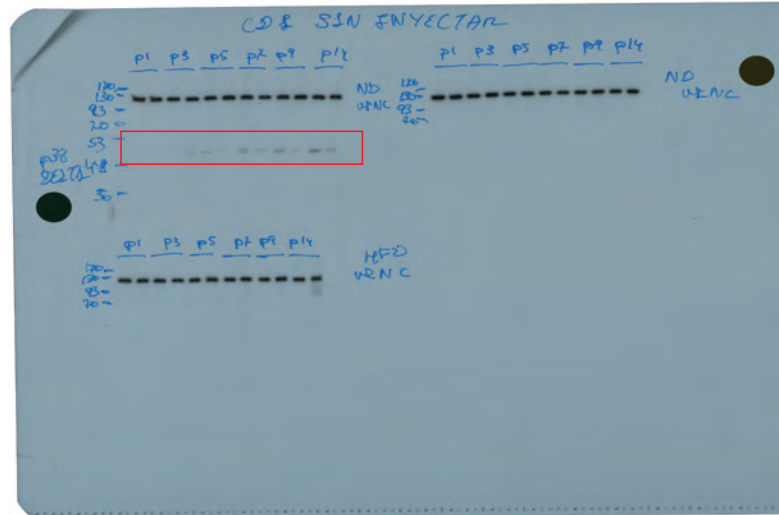
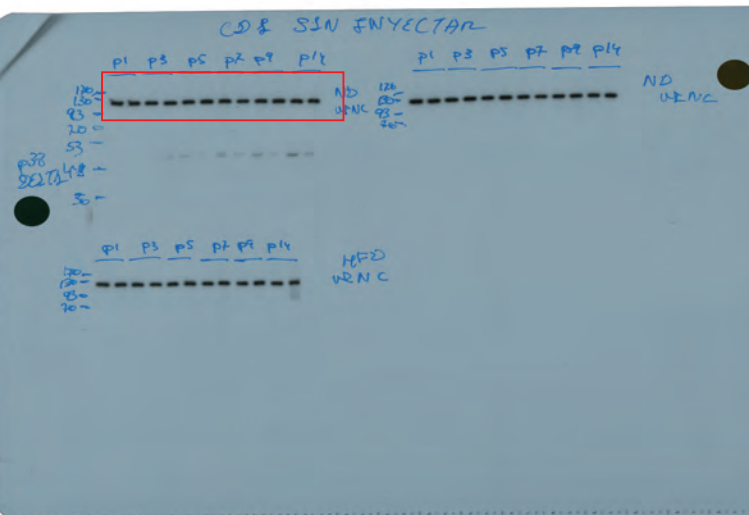


p38 $\gamma$



Vinculin

p38 $\delta$

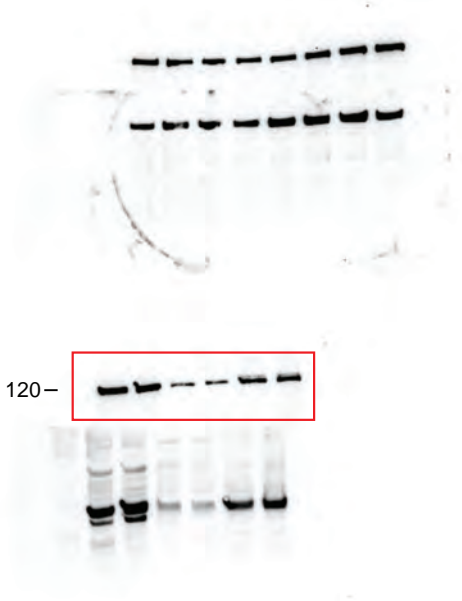
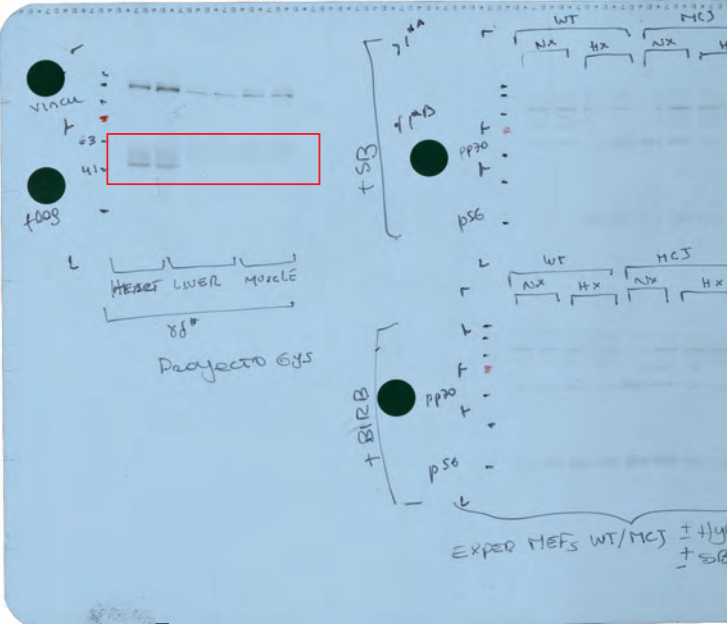


Chemiluminescence Western Blotting  
X ray film detection

Figure 1B

Anti-Flag

Vinculin

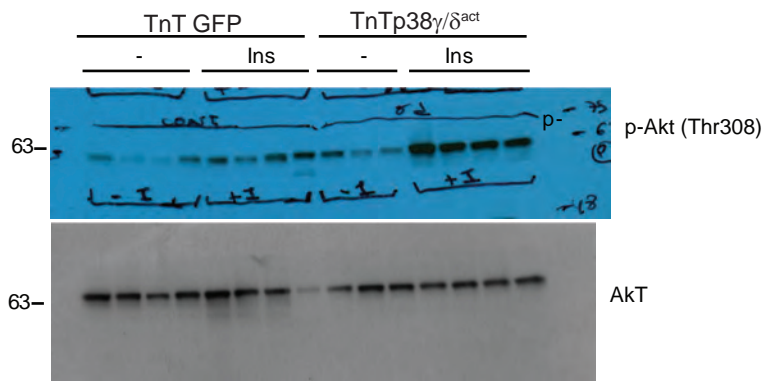


Chemiluminescence Western Blotting  
X ray film detection

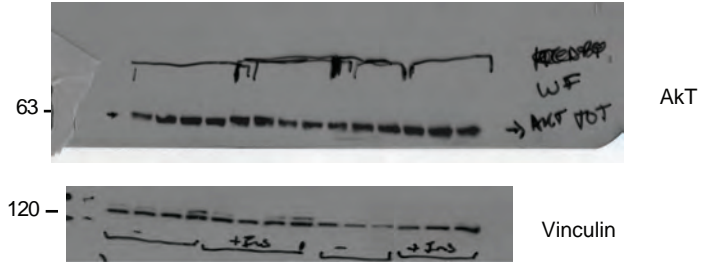
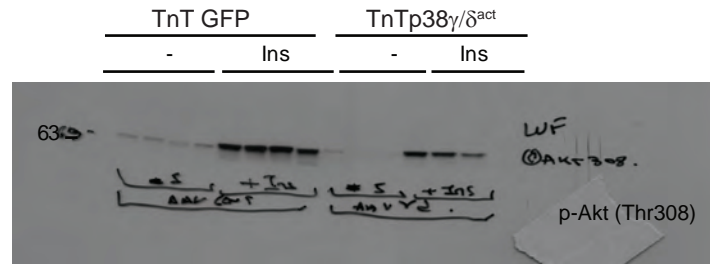
Chemiluminescence Western Blotting  
IBright 1500 detection

Figure 4C

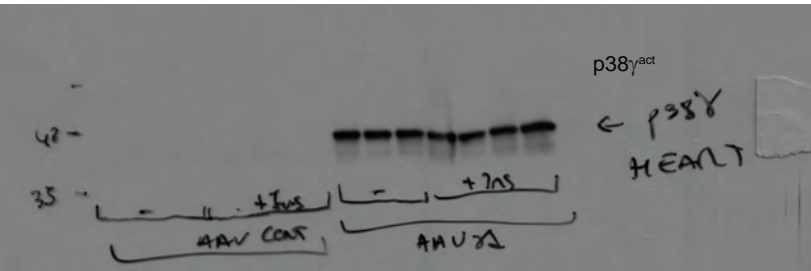
Heart



WAT

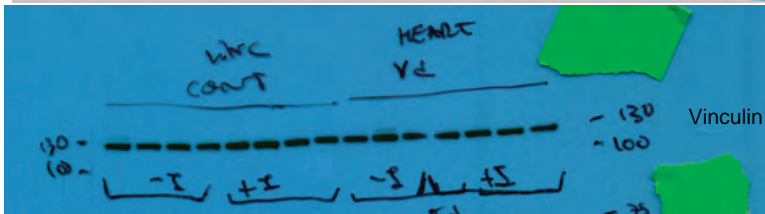
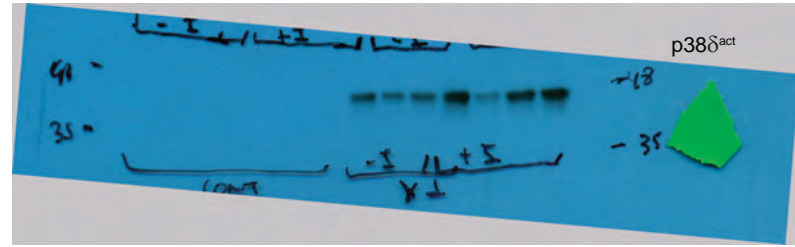
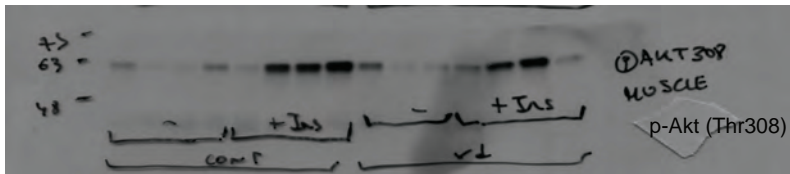


p38 $\gamma^{act}$



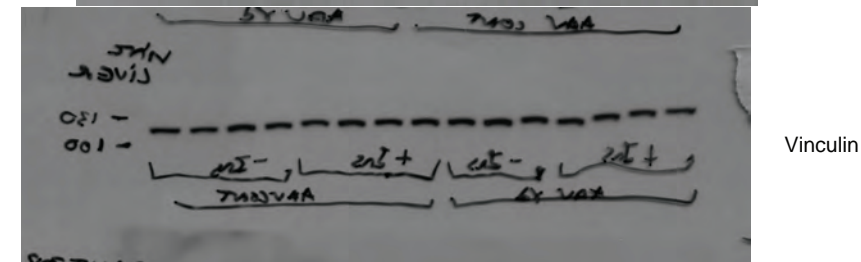
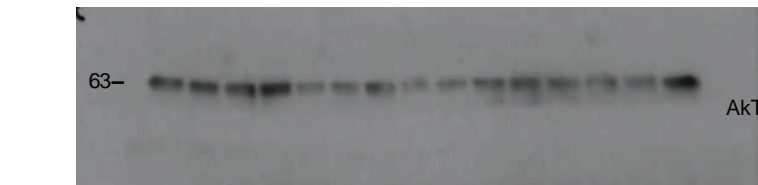
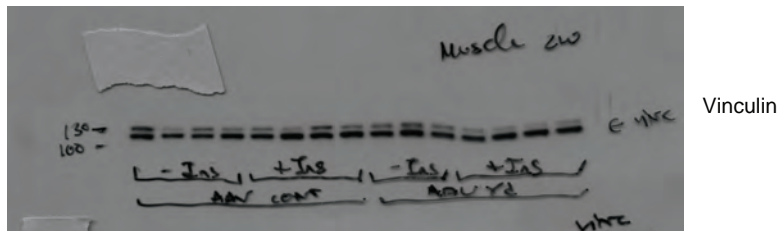
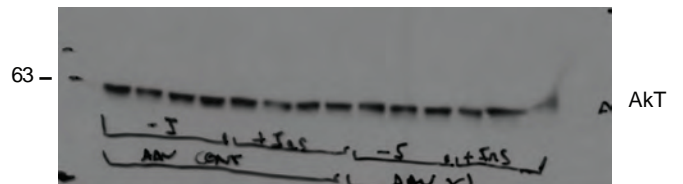
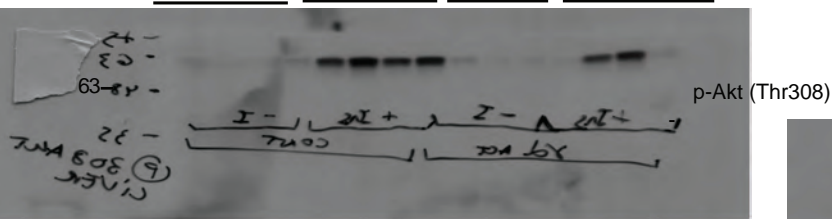
Muscle

TnT GFP		TnTp38 $\gamma/\delta^{act}$	
-	Ins	-	Ins



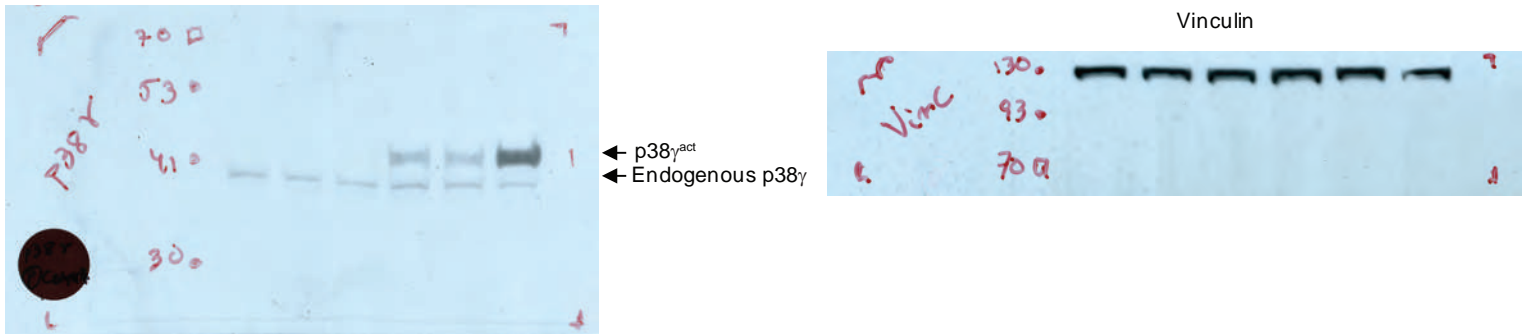
Liver

TnT GFP		TnTp38 $\gamma/\delta^{act}$	
-	Ins	-	Ins



Chemiluminescence Western Blotting  
X ray film detection

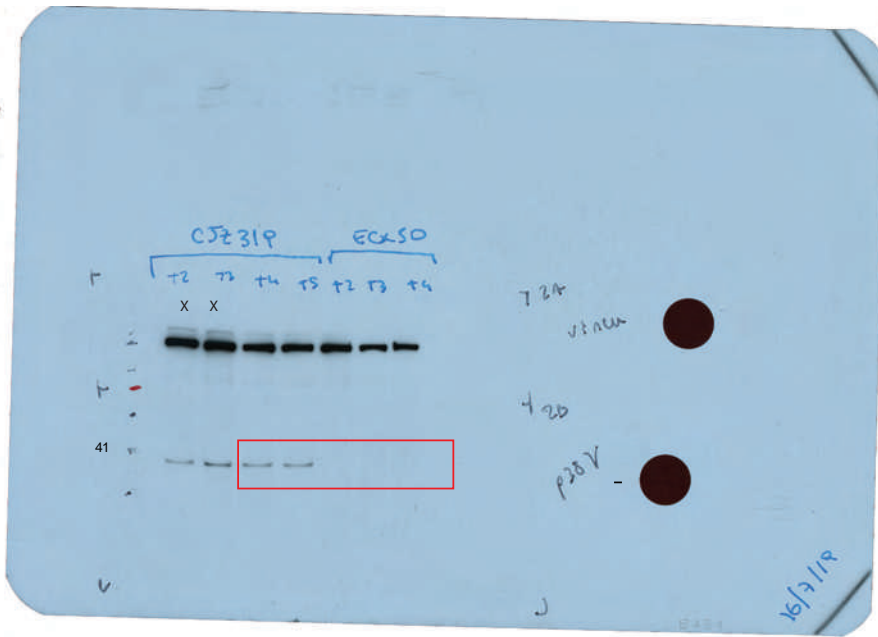
Figure 5A



Chemiluminescence Western Blotting  
X ray film detection

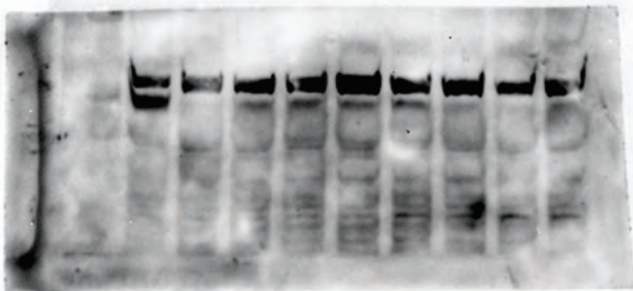
Figure 6A

p38 $\gamma$

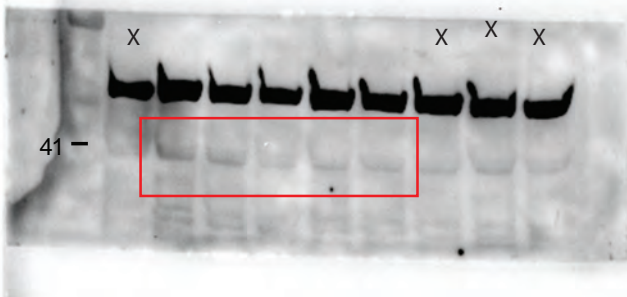


Chemiluminescence Western Blotting  
X ray film detection

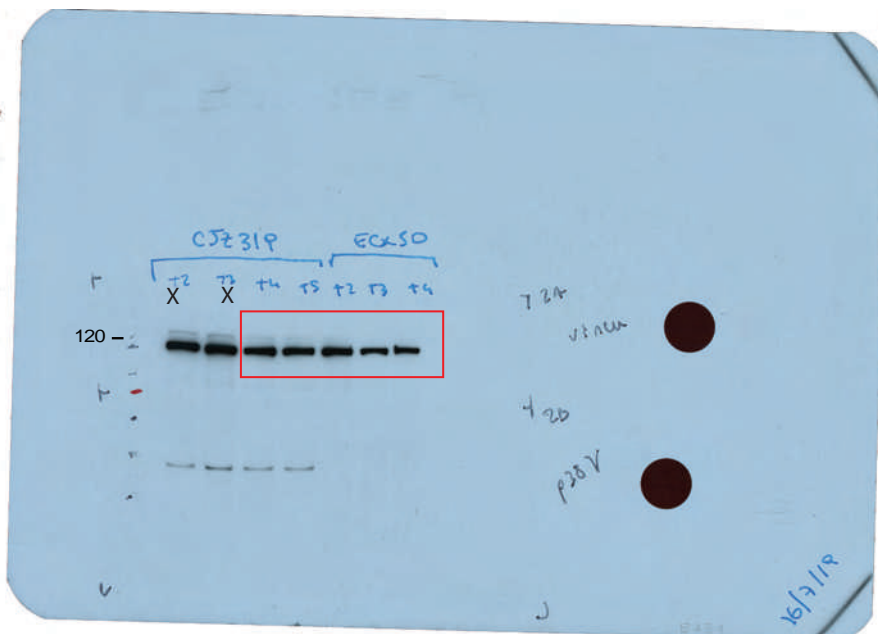
p38 $\delta$



Chemiluminescence Western Blotting  
IBright 1500 detection



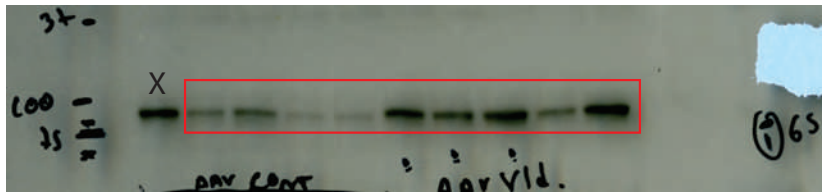
Vinculin



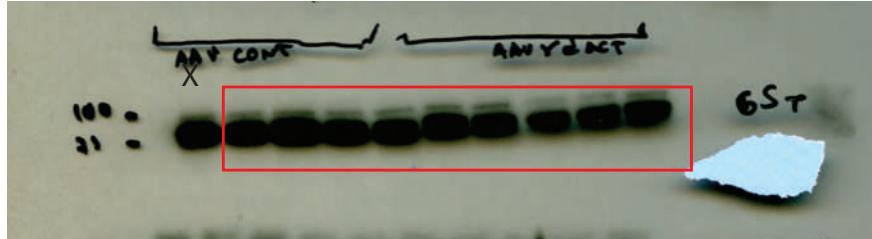
Chemiluminescence Western Blotting  
X ray film detection

# Figure 7A

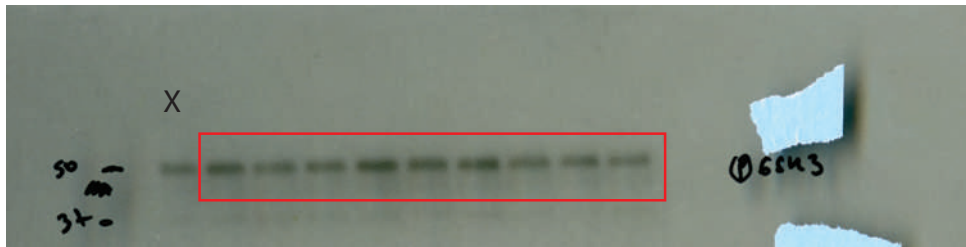
p-GYS (S641)



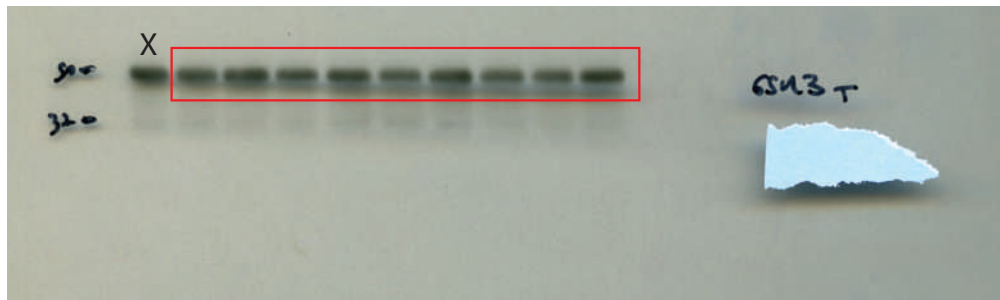
GYS1



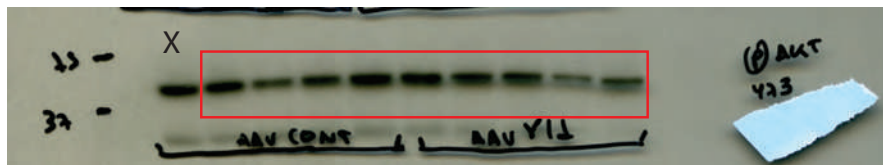
p-GSK3α/β (S21/9)



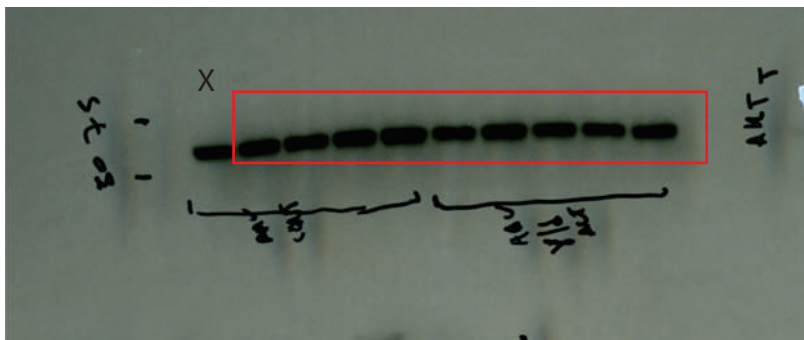
GSK3β



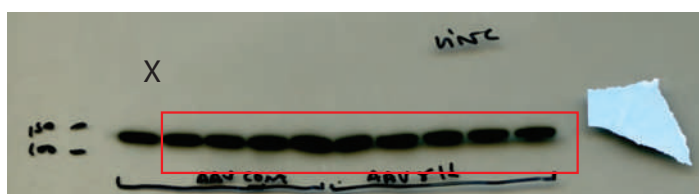
p-Akt(Thr 308)



Akt

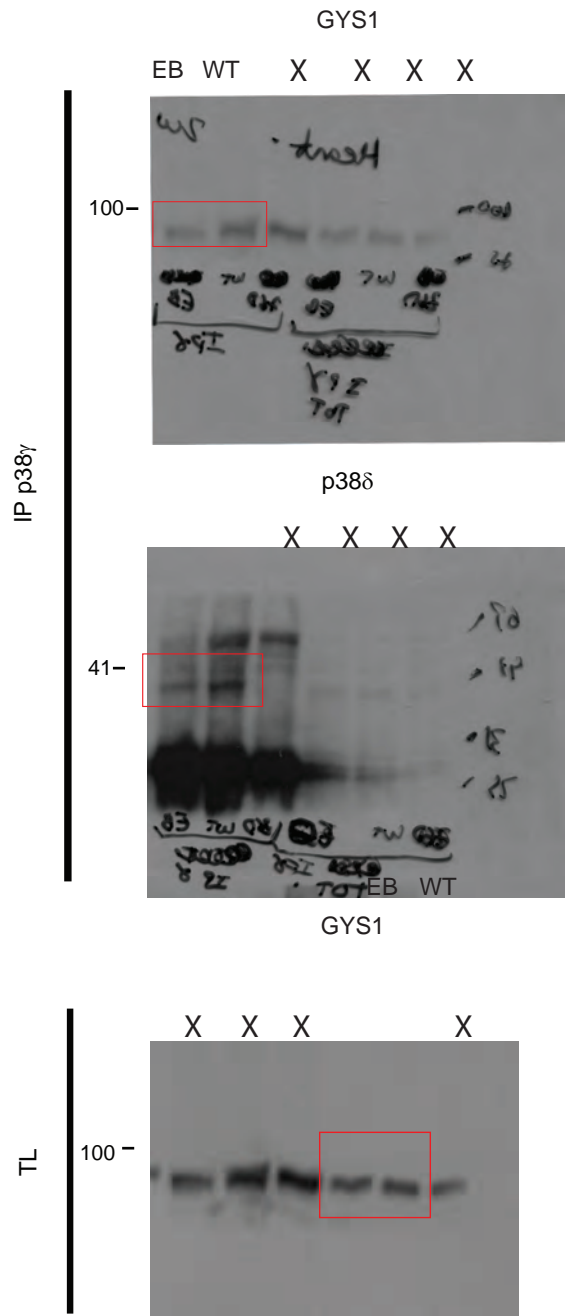


Vinculin



Chemiluminescence Western Blotting  
X ray film detection

Figure 7D

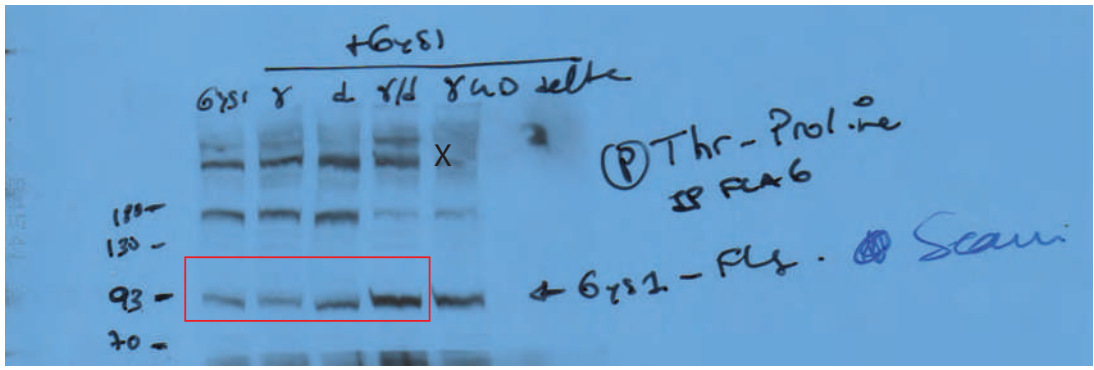


The GYS1 blots are exactly the same gels with different exposure time as the IP and the Total lysate (TL) were charged next to each other

Chemiluminescence Western Blotting  
X ray film detection

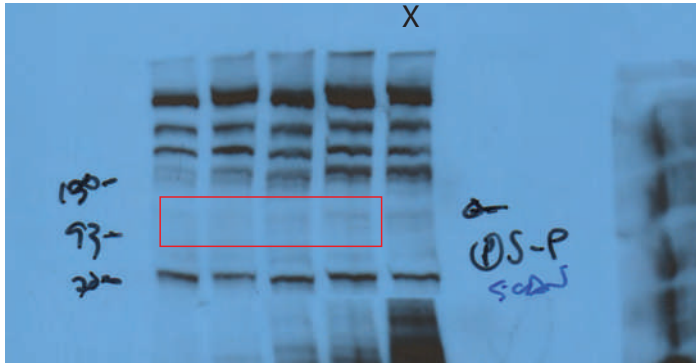
Figure 7C

P- Thr-Pro

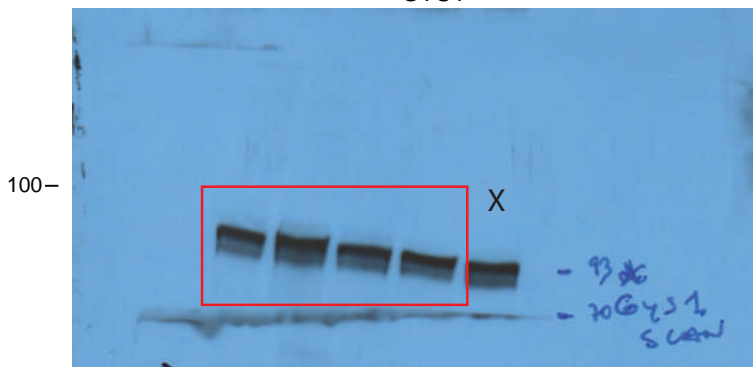


IP-Flag

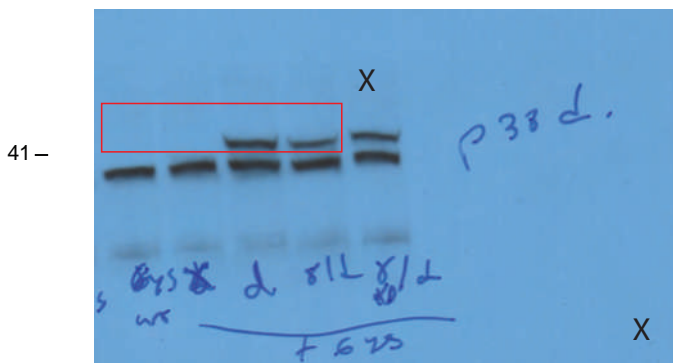
P- Ser-Pro



GYS1

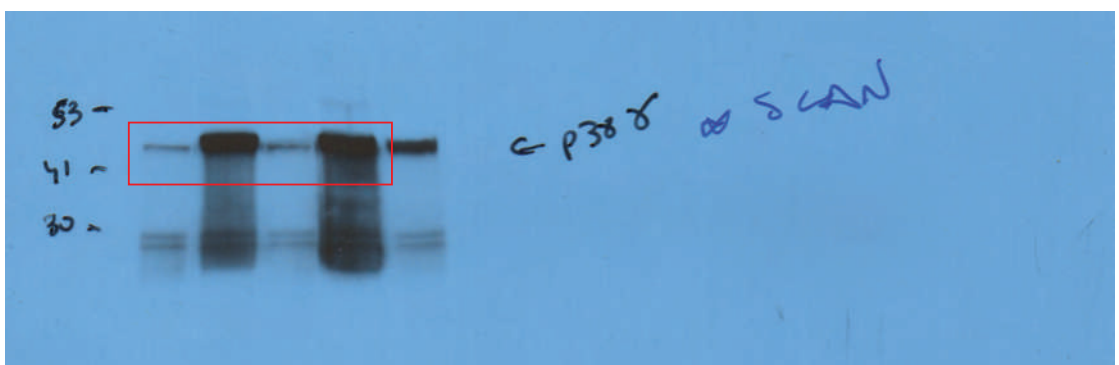


p38 $\delta$



TL

p38 $\gamma$

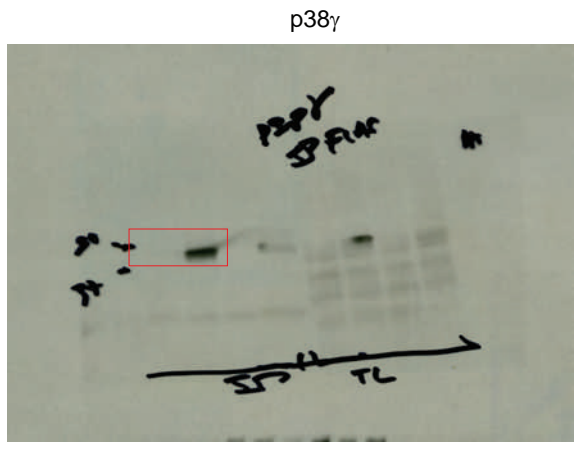
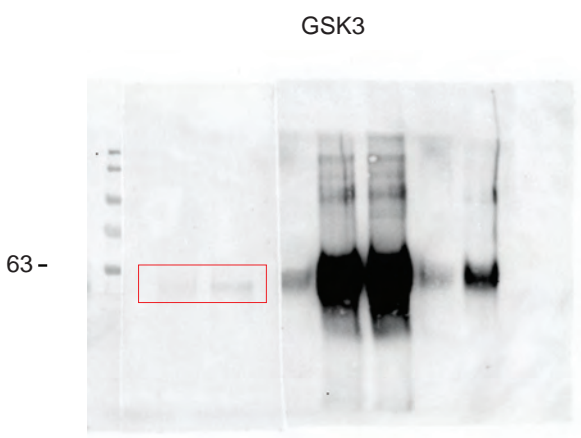
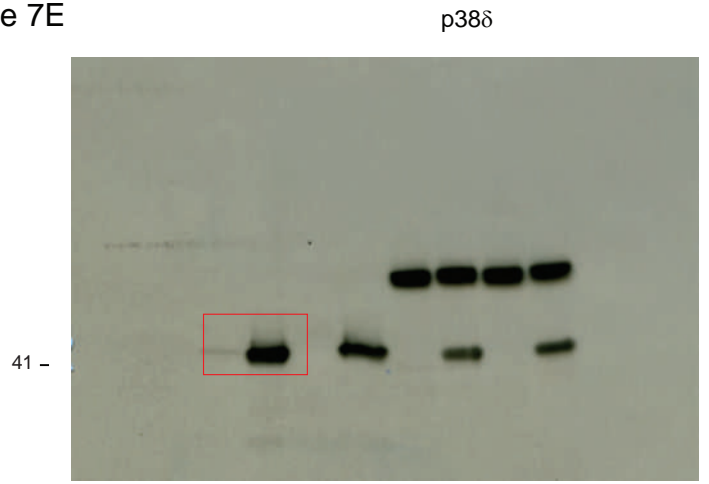
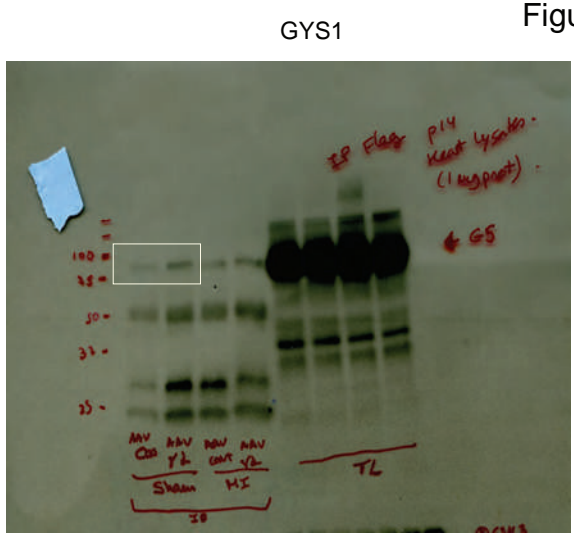


Chemiluminescence Western Blotting  
X ray film detection

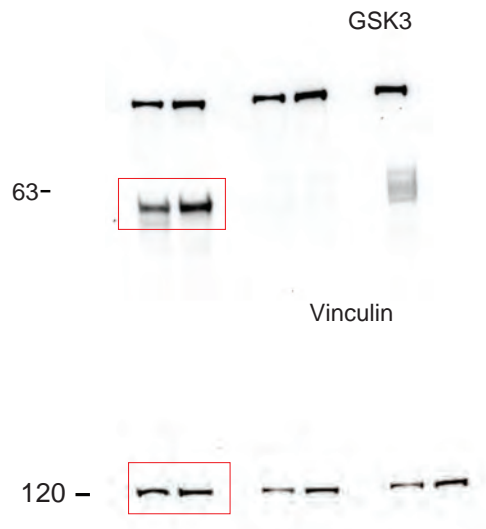
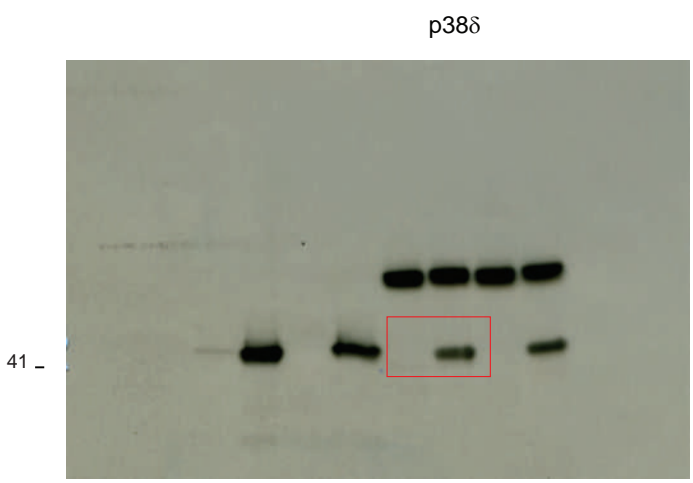
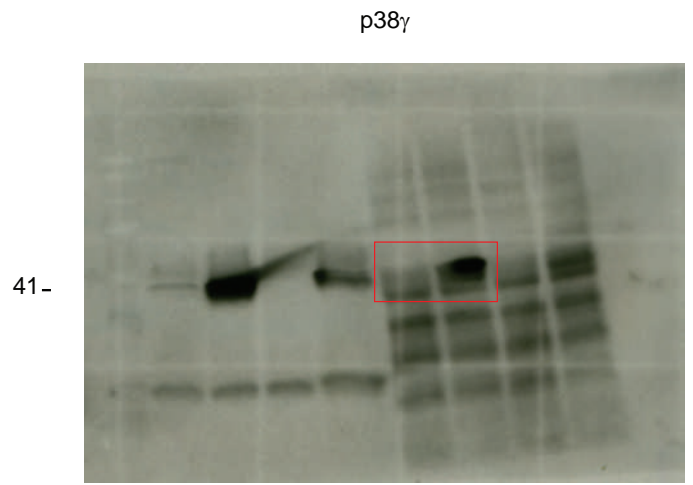
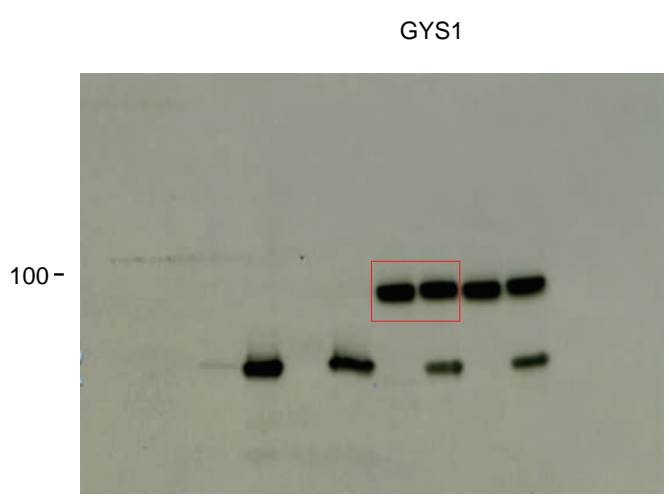


Figure 7E

IP- Flag

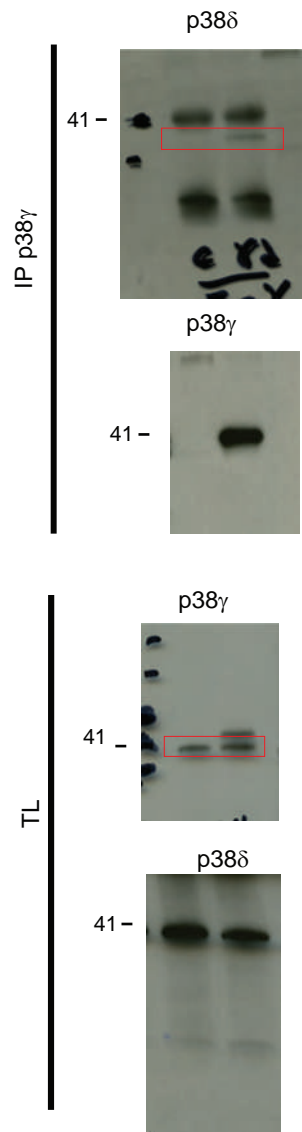


TL



Chemiluminescence Western Blotting  
X ray film and iBright 15000 detection

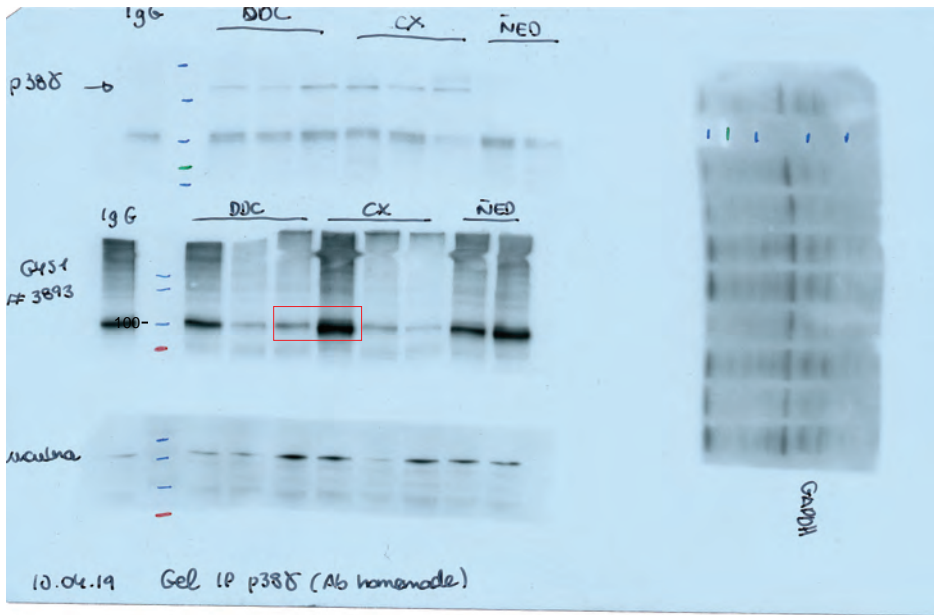
Figure 7F



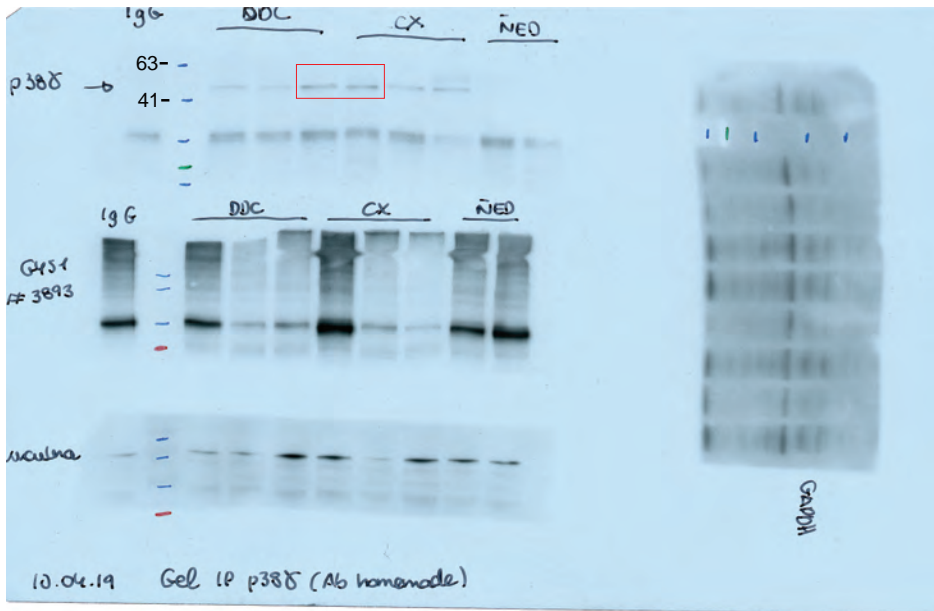
Chemiluminescence Western Blotting  
X ray film detection

Figure 7G

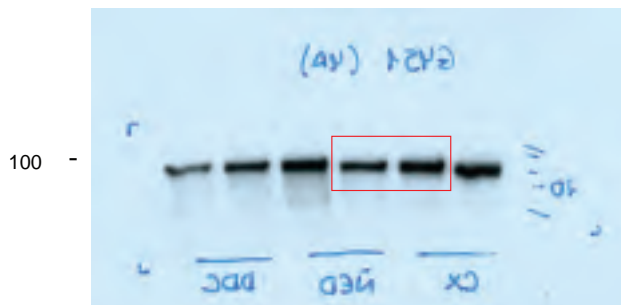
GYS1



p38 $\gamma$



GYS1



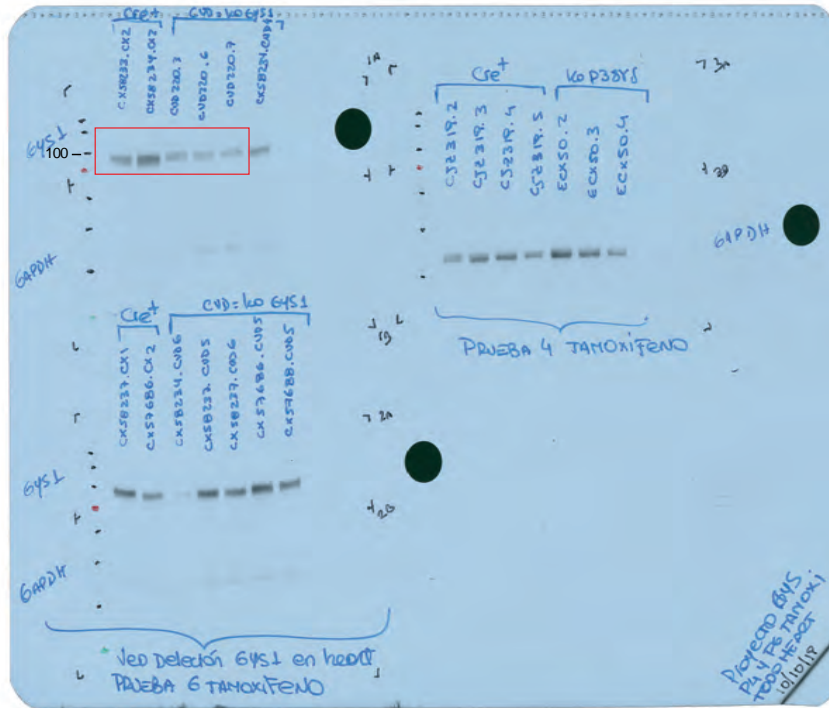
Chemiluminescence Western Blotting  
X ray film detection

IP p38 $\gamma$

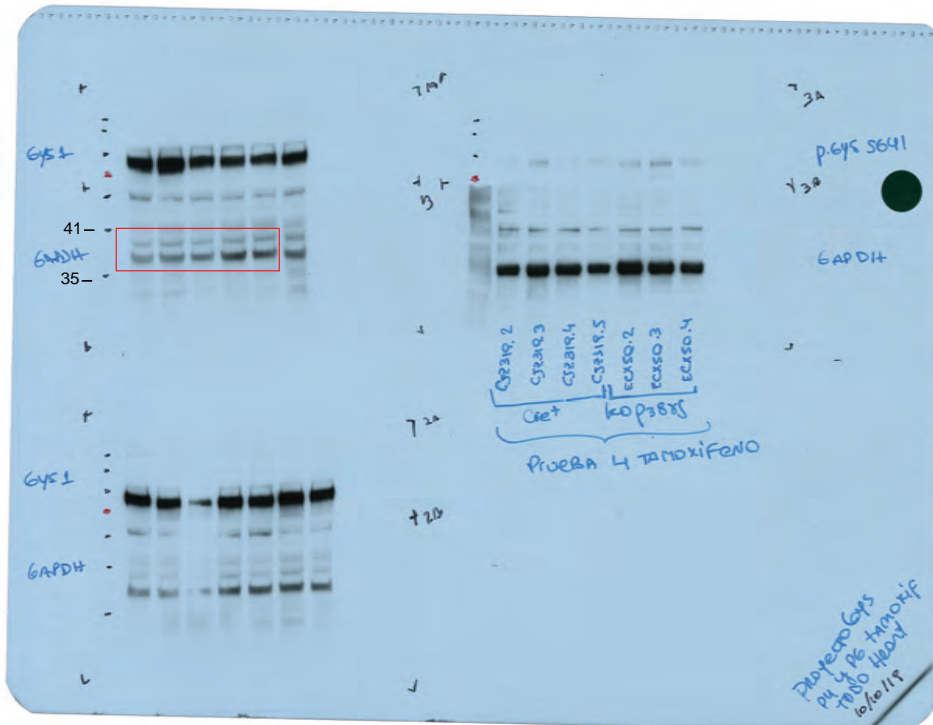
TL

Figure 8A

GYS1



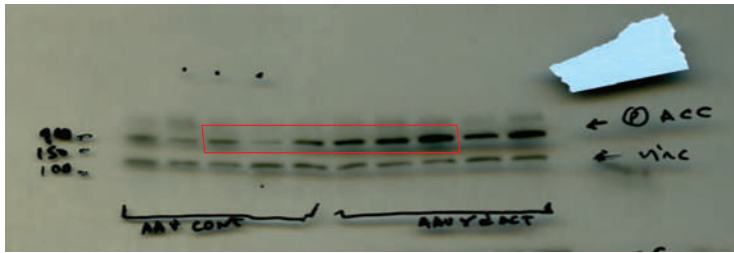
GAPDH



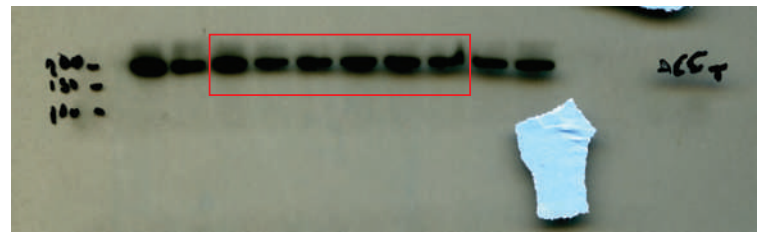
Chemiluminescence Western Blotting  
X ray film detection

Supplementary Figure 4A

p-ACC



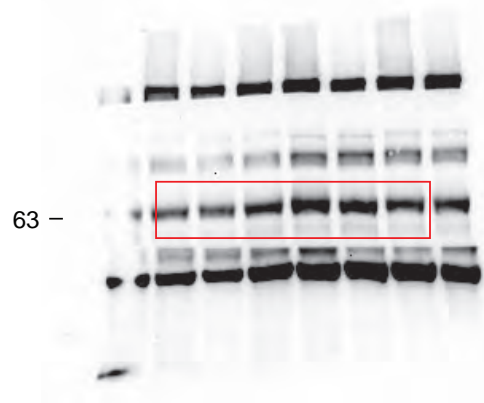
ACC



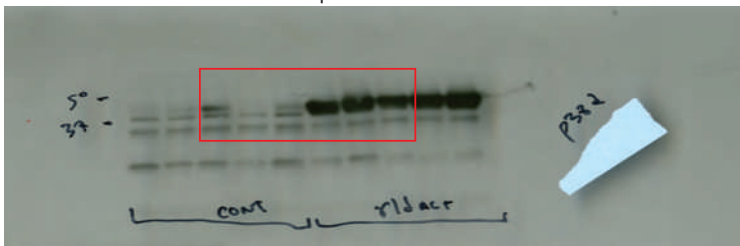
pAMPK(Thr 172)



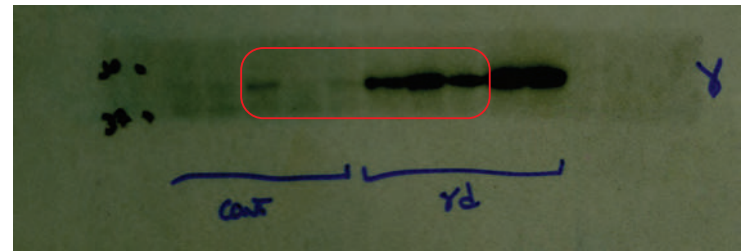
AMPK



p38 $\delta^{act}$

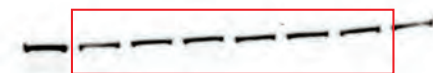


p38 $\gamma^{act}$



Vinculin

120-

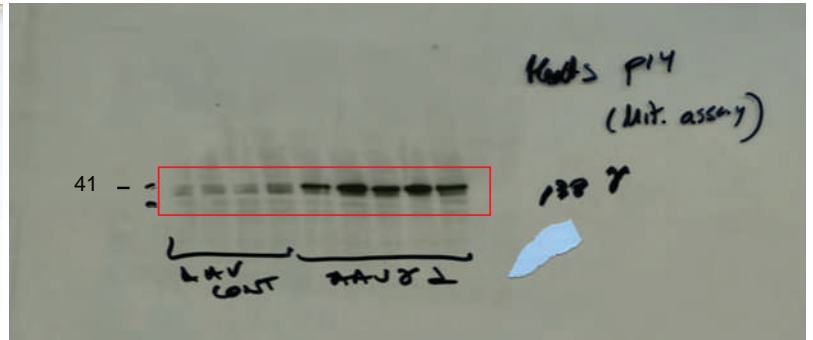
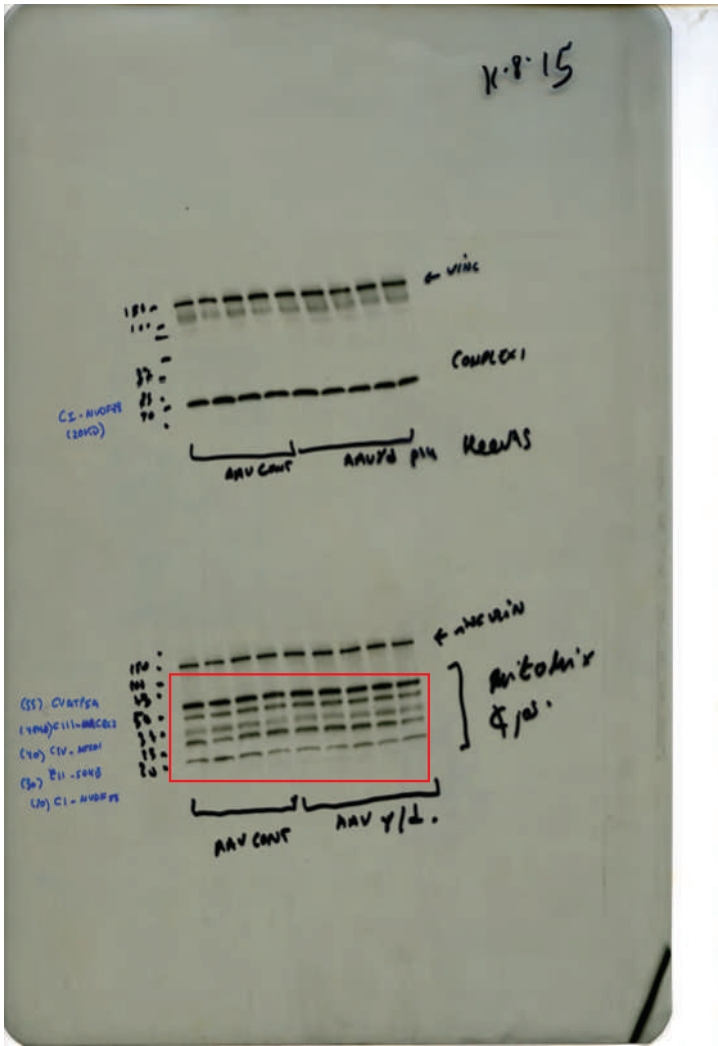


Chemiluminescence Western Blotting  
X ray film and iBright 1500 detection

Supplementary Figure 4C

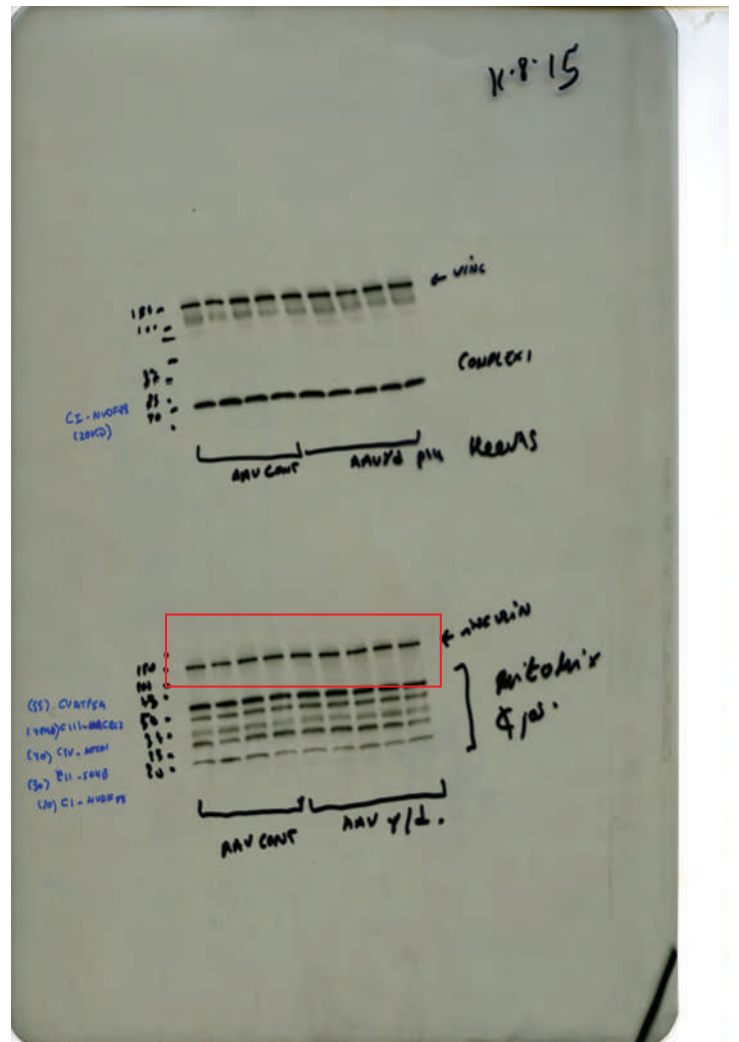
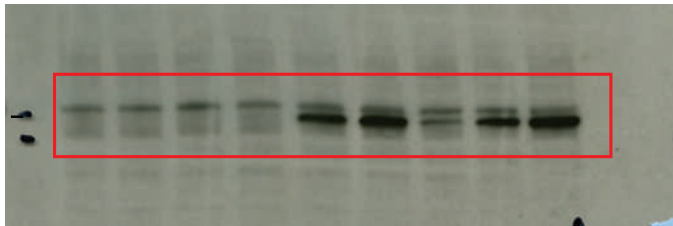
Mitochondria

p38 $\gamma$



Vinculin

p38 $\gamma$

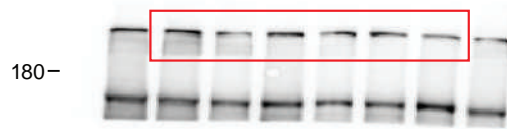


Chemiluminescence Western Blotting  
X ray film detection

Supplementary Figure 5A

Liver

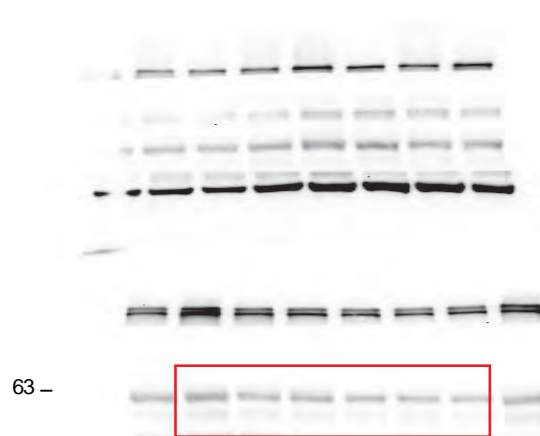
FAS



p-AMPK (Thr 172)



AMPK

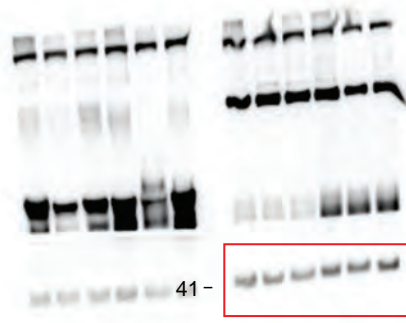


Vinculin



Chemiluminescence Western Blotting  
IBright 1500 detection

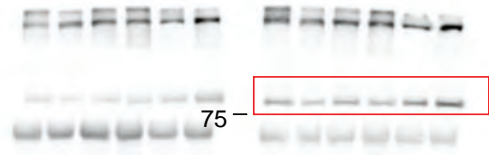
PKA



p-HSL (Ser 660)



HSL



pAMPK (Thr172)



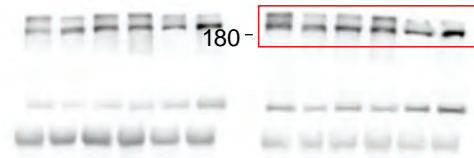
AMPK



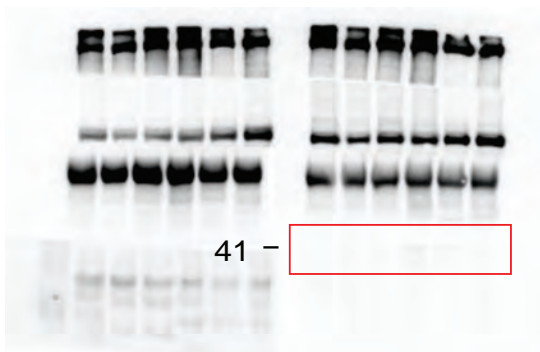
p-ACC (Ser 79)



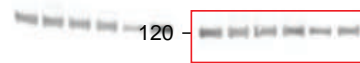
ACC



pp38



Vinculin

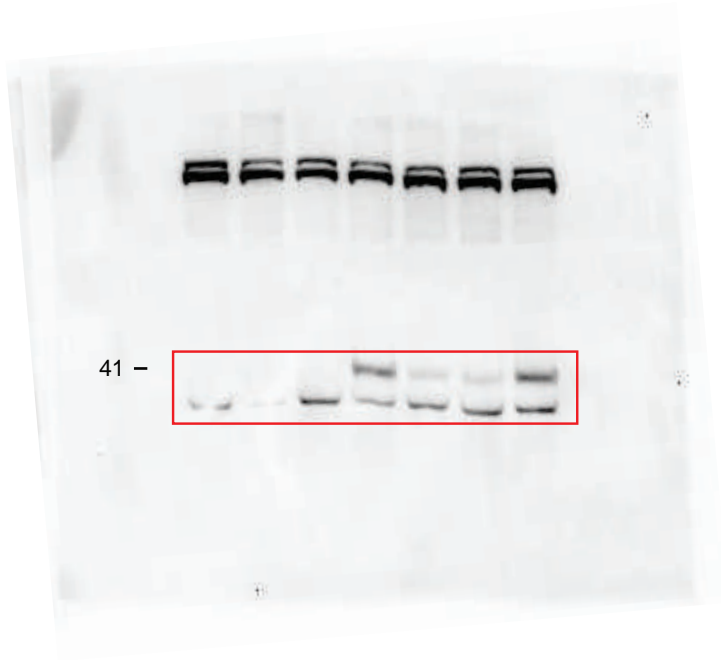


Chemiluminescence Western Blotting  
IBright 1500 detection

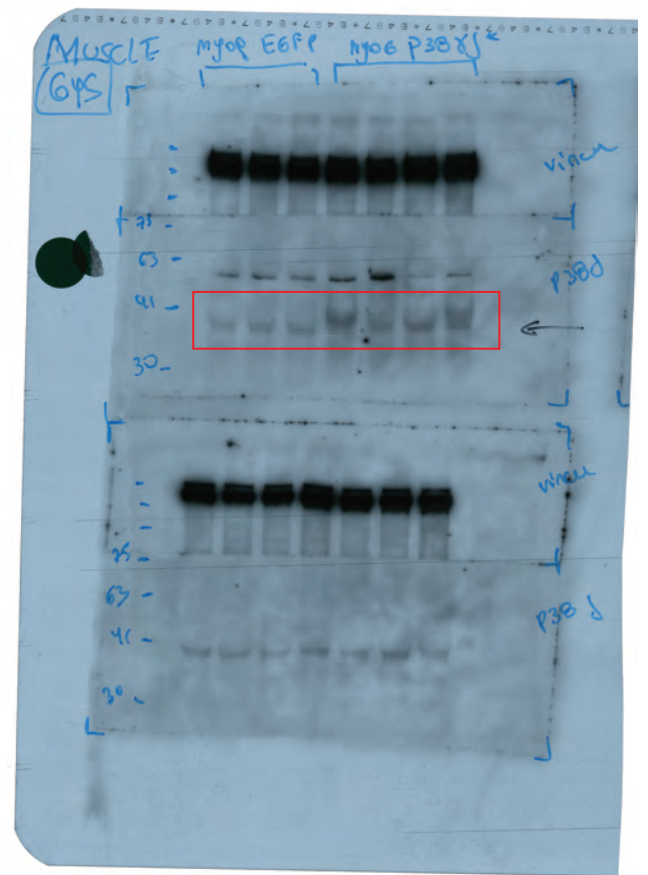


Supplementary Figure 7A

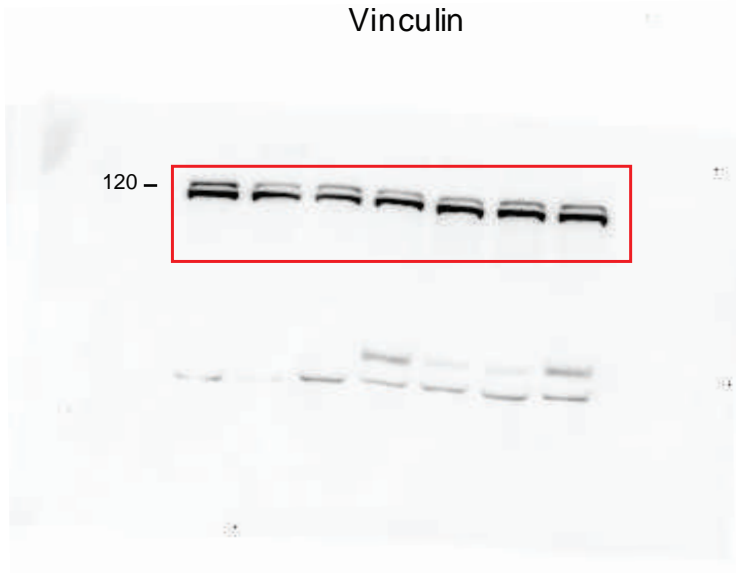
p38 $\gamma^{\text{act}}$



p38 $\delta^{\text{act}}$



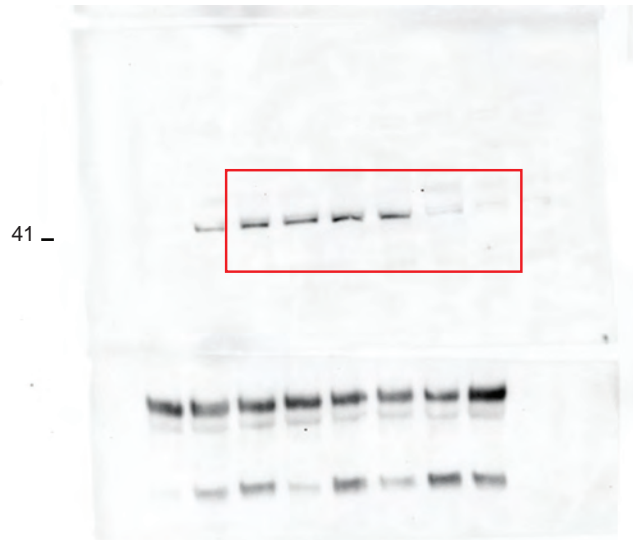
Vinculin



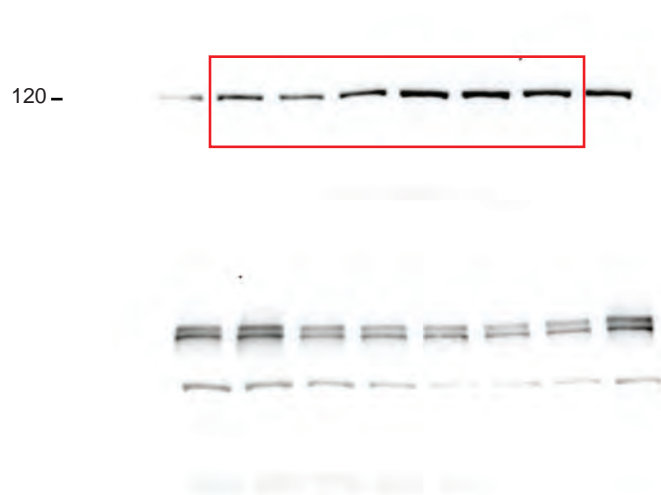
Chemiluminescence Western Blotting X ray film and iBright 1500 detection

Supplementary Figure 10

p-PKA C (Thr197)



Vinculin

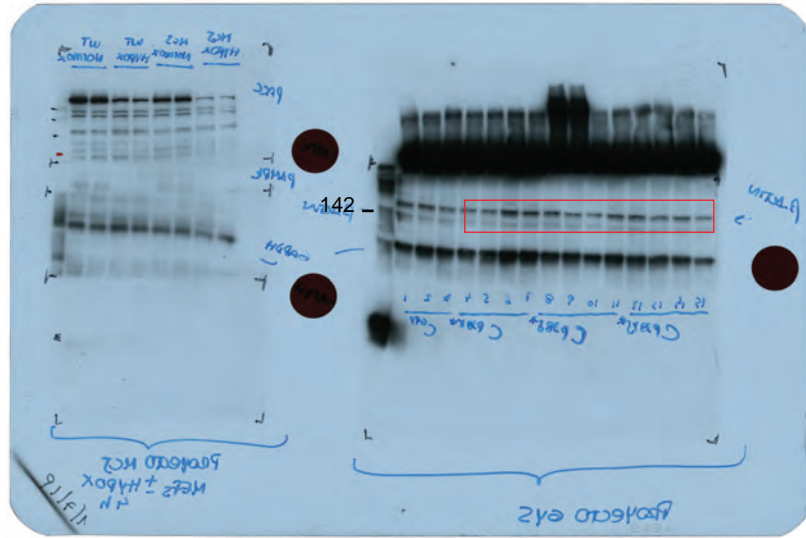
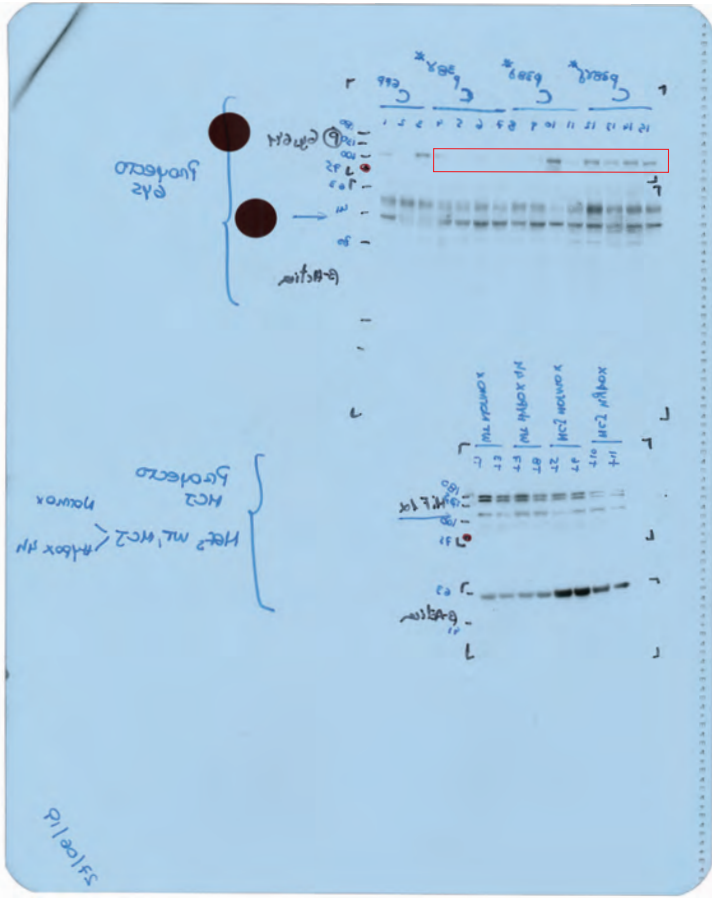


Chemiluminescence Western Blotting  
iBright 1500 detection

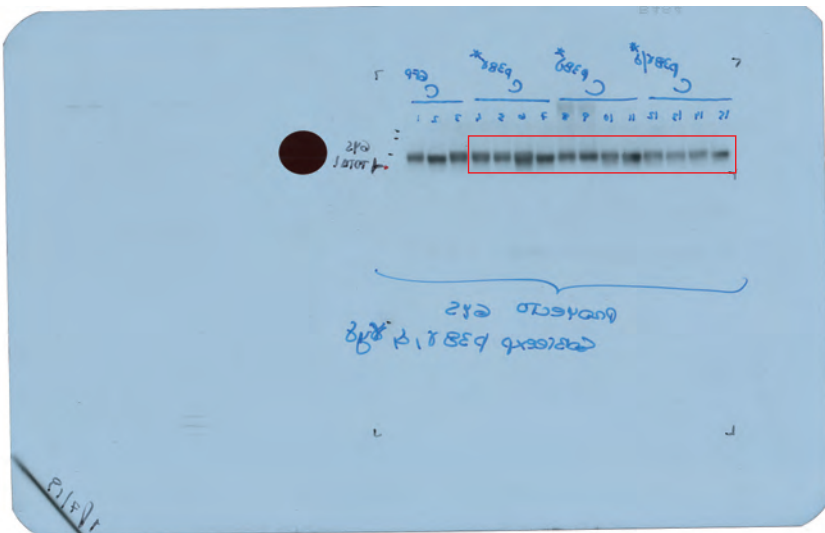
Supplementary Figure 12A

p-GYS (S641)

$\beta$ -actin



GYS1



Chemiluminescence Western Blotting  
X ray film detection