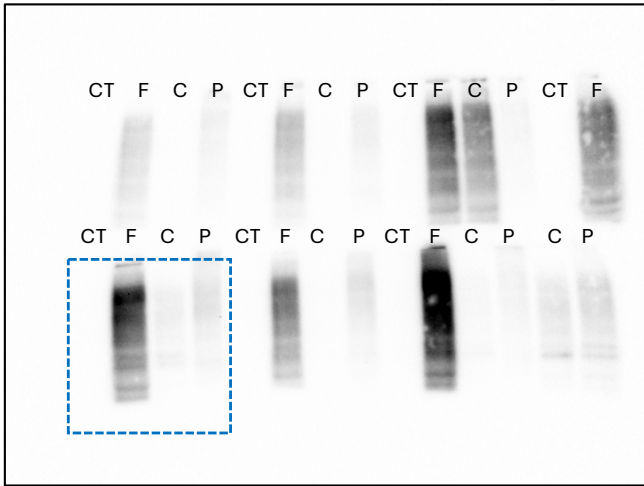


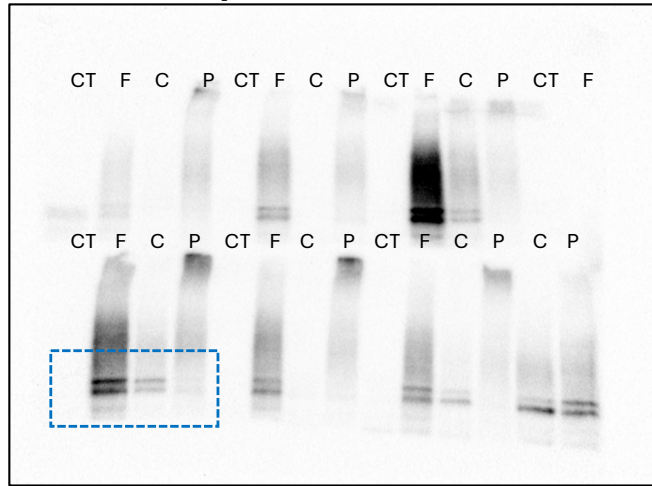
**Figure 1A**

CT: CTRL  
F: FAD  
C: CBD  
P: PiD

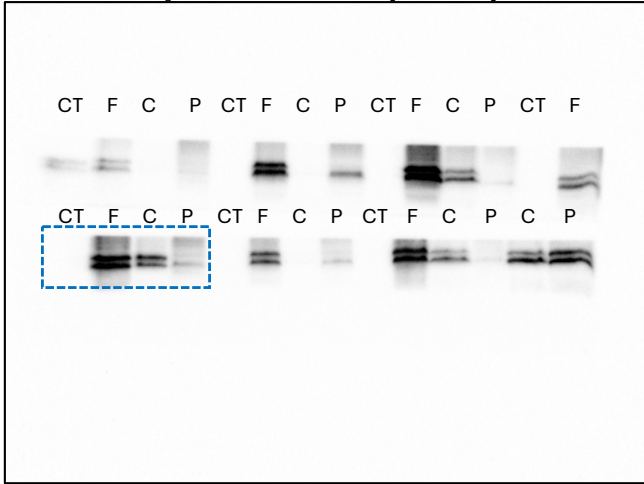
**pTau Ser396/404 (PHF-1)**



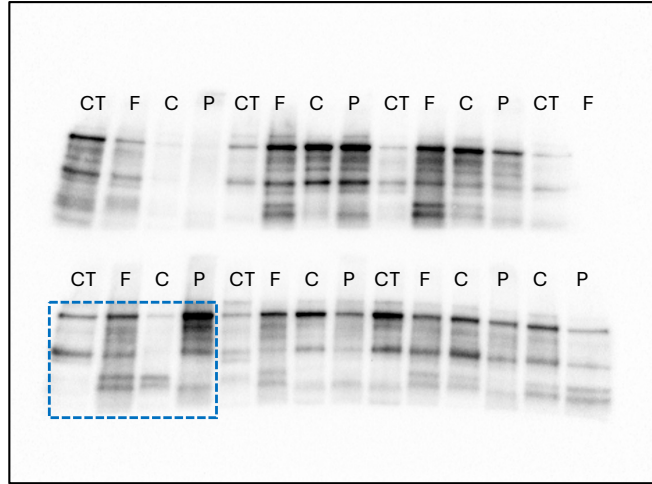
**pTau Thr217**



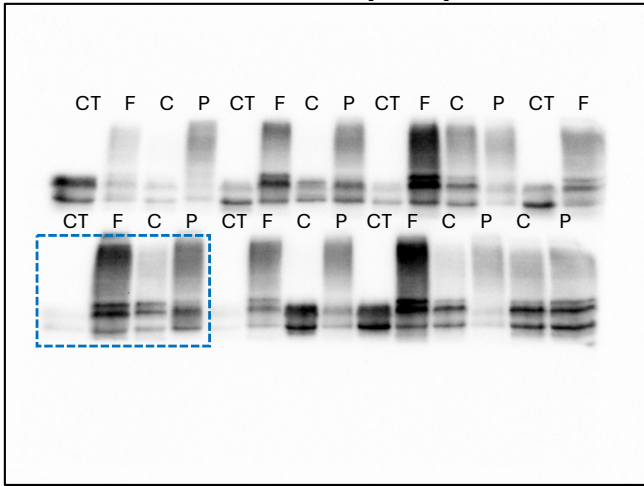
**pTau Ser202 (CP13)**



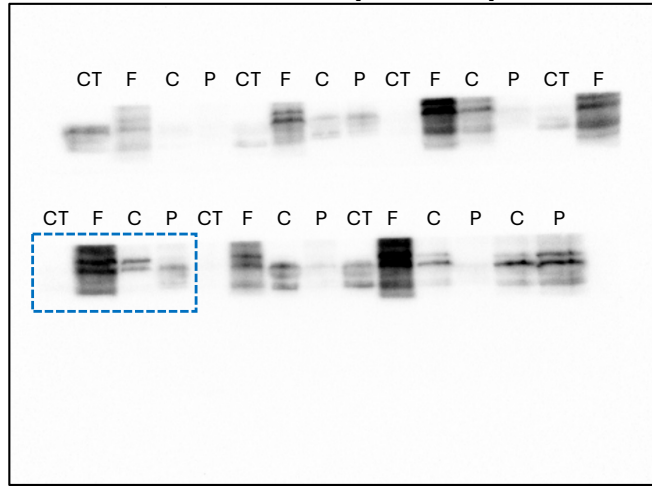
**pTau Thr181**



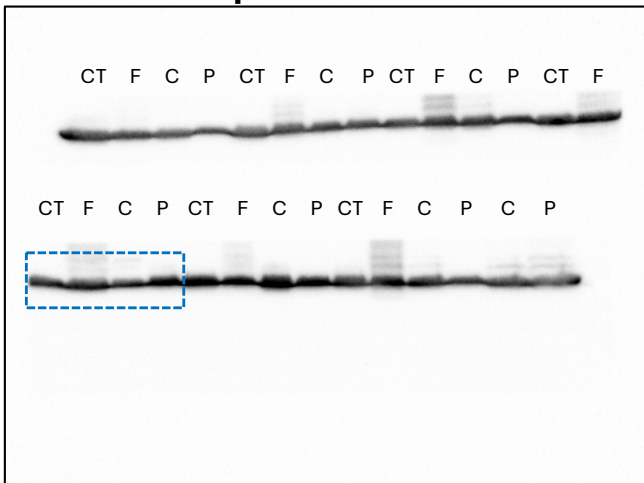
**Total Tau (TG5)**



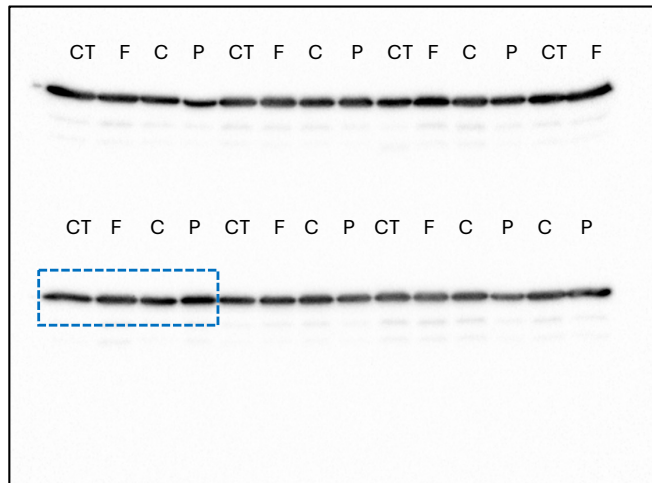
**Total Tau (D1M9X)**



**$\beta$ -tubulin**



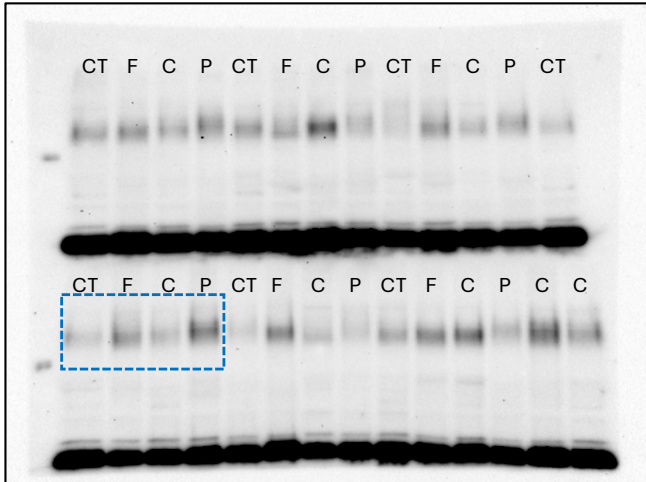
**GAPDH**



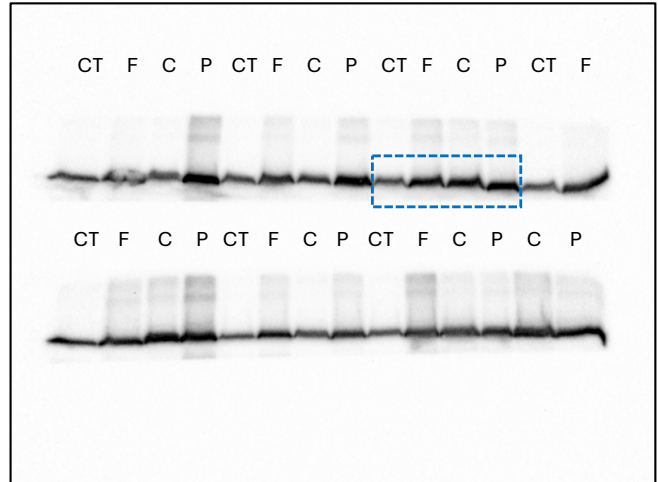
**Figure 1D**

CT: CTRL  
F: FAD  
C: CBD  
P: PiD

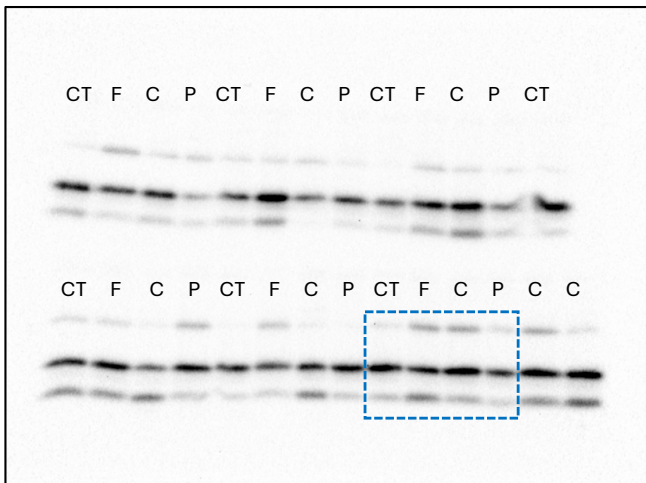
**LAMP2A**



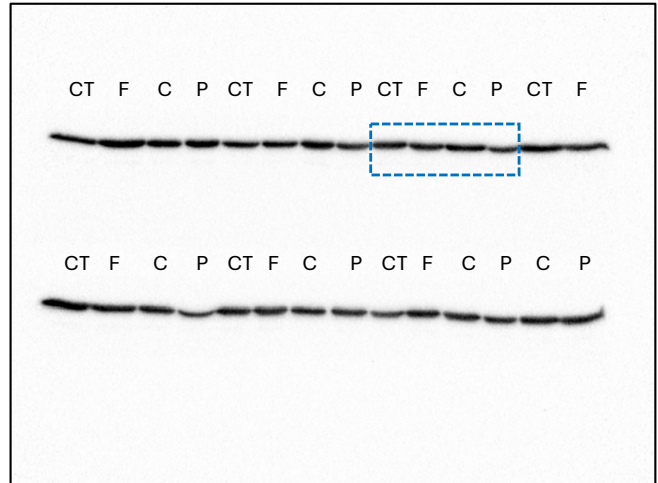
**p62**



**LC3**

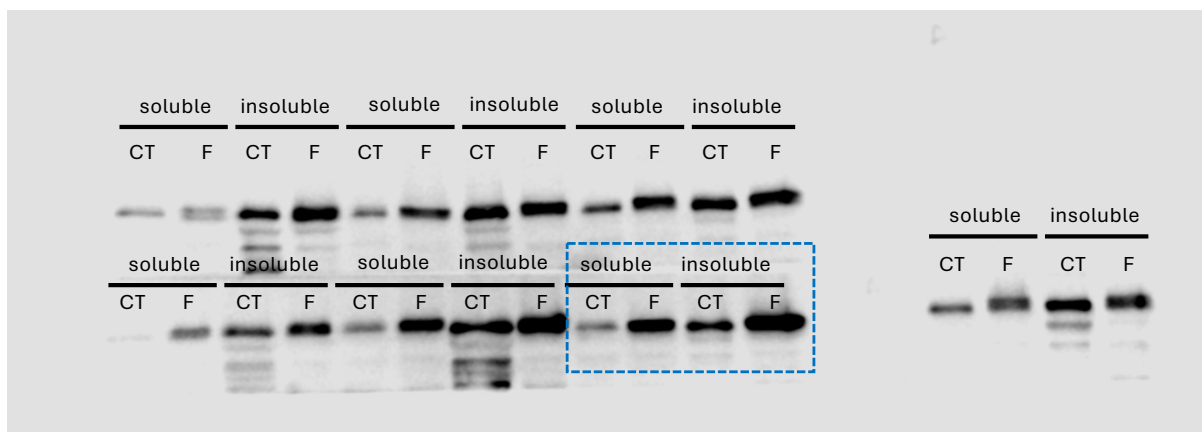


**GAPDH**

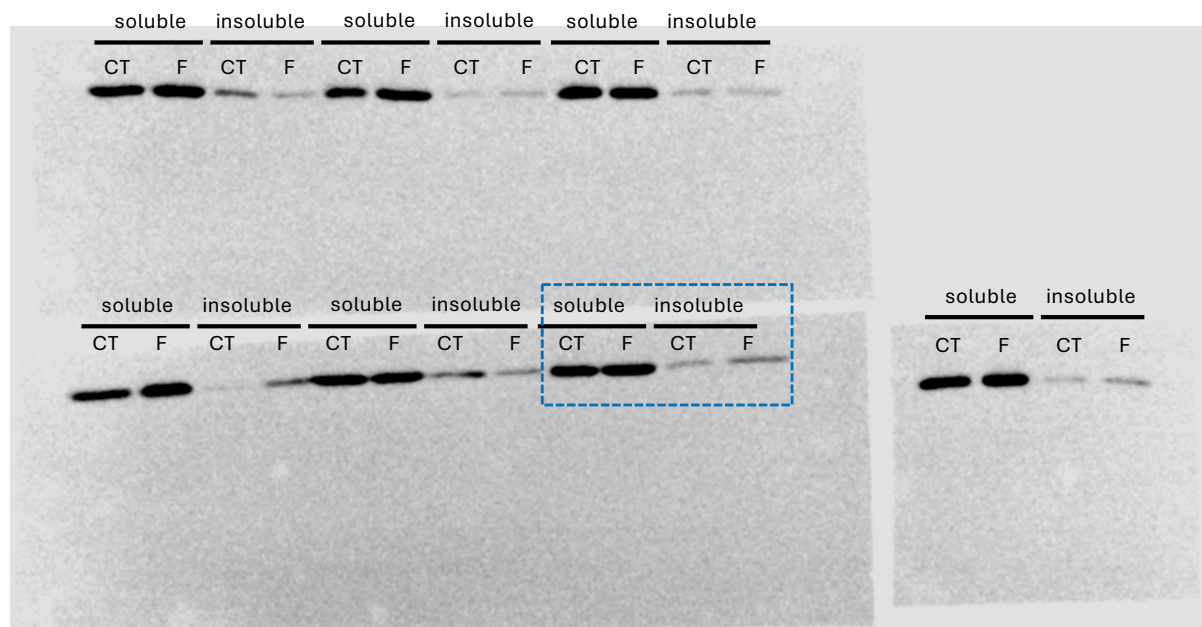


# Figure 1F

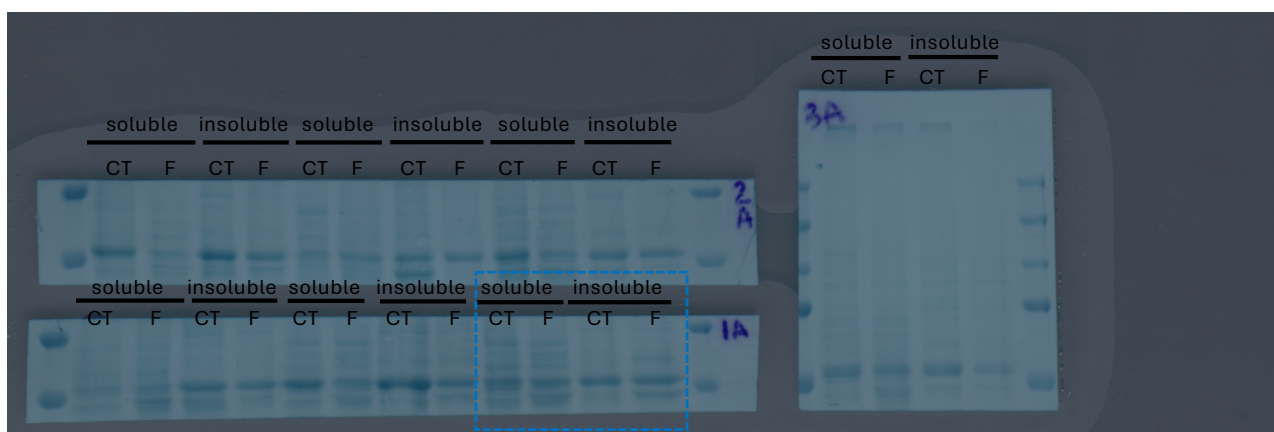
## p62



## GAPDH



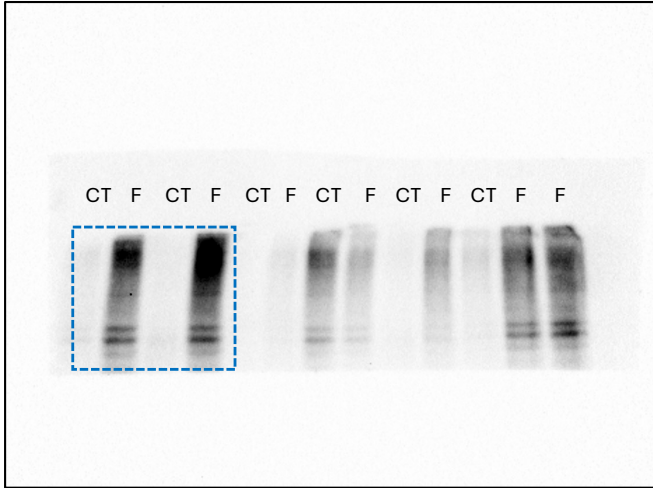
## Naphthol blue



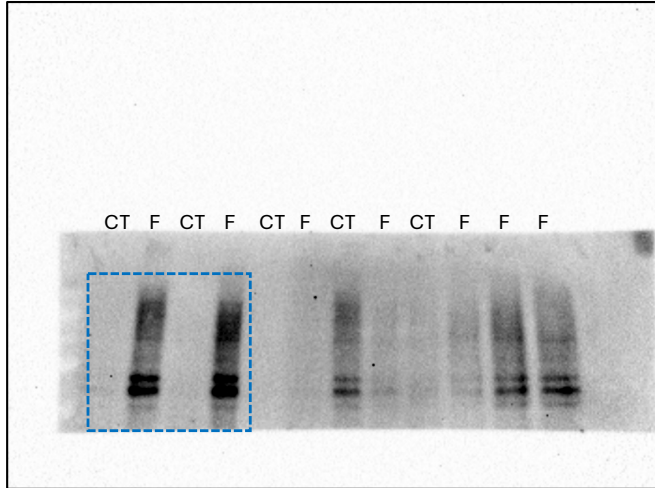
# Figure 2C

CT: CTRL  
F: FAD

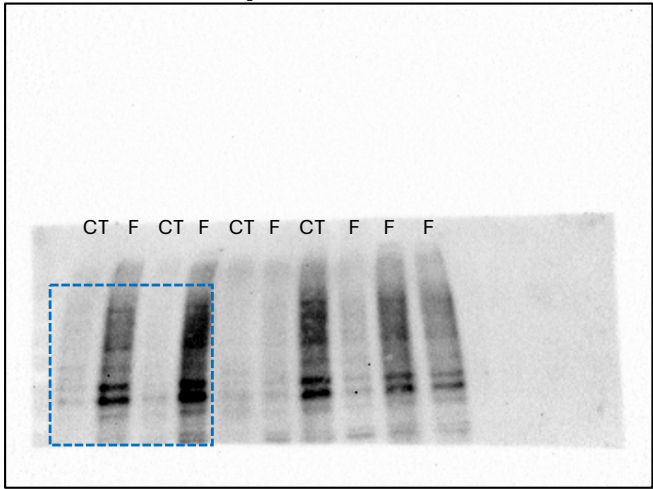
## Lysate: pTau Thr217



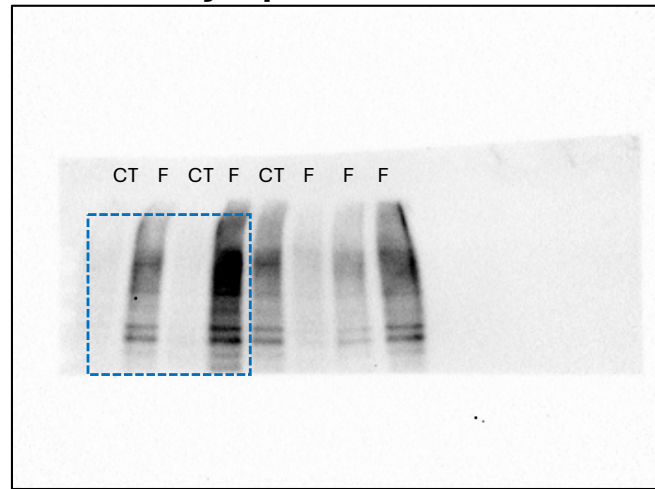
## Aph: pTau Thr217



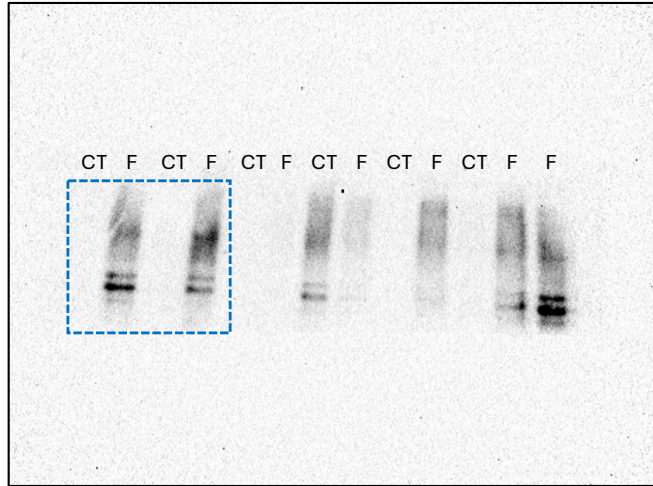
## AL: pTau Thr217



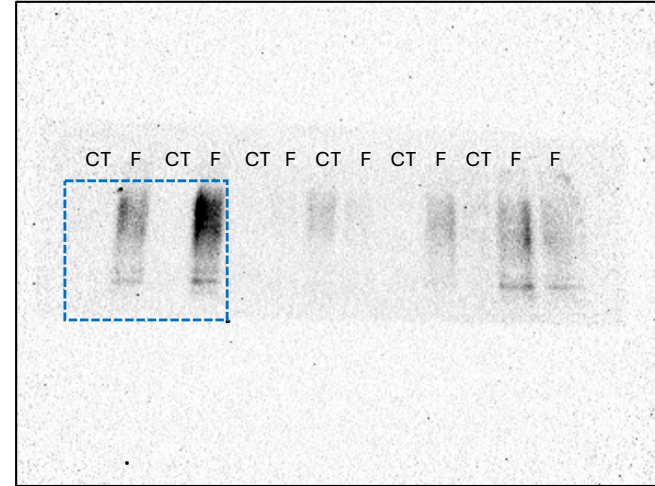
## Lys: pTau Thr217



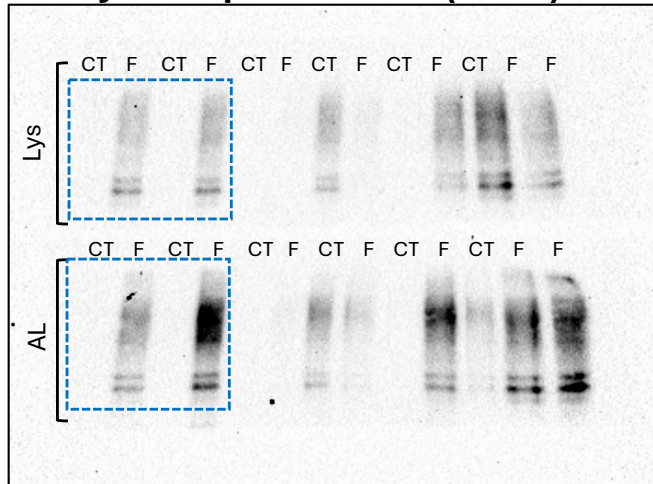
## Lysate: pTau Ser202 (CP13)



## Aph: pTau Ser202 (CP13)



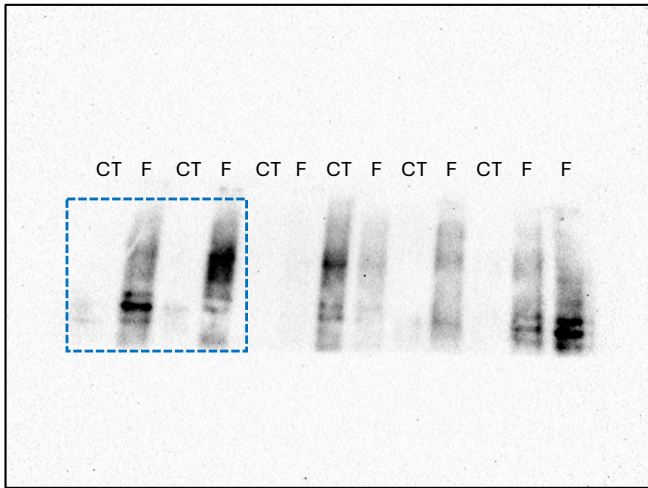
## Lys+AL: pTau Ser202 (CP13)



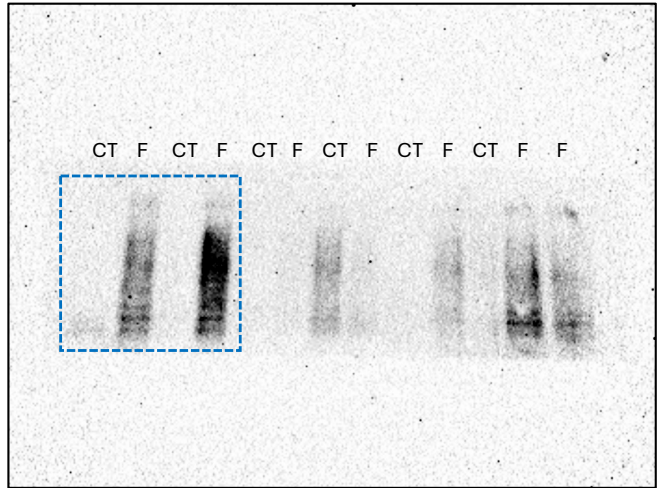
# Figure 2C

CT: CTRL  
F: FAD

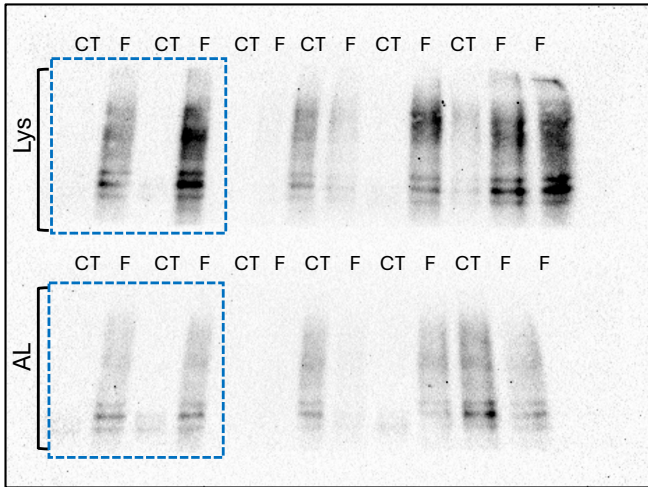
## Lysate: Total Tau (D1M9X)



## Aph: Total Tau (D1M9X)

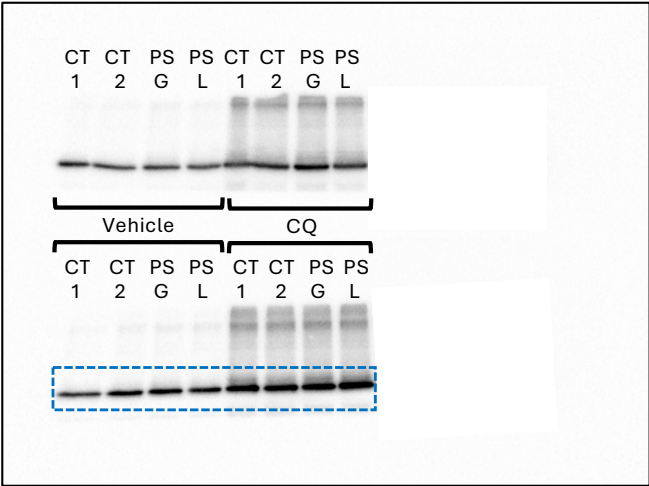


## Lys+AL: Total Tau (D1M9X)

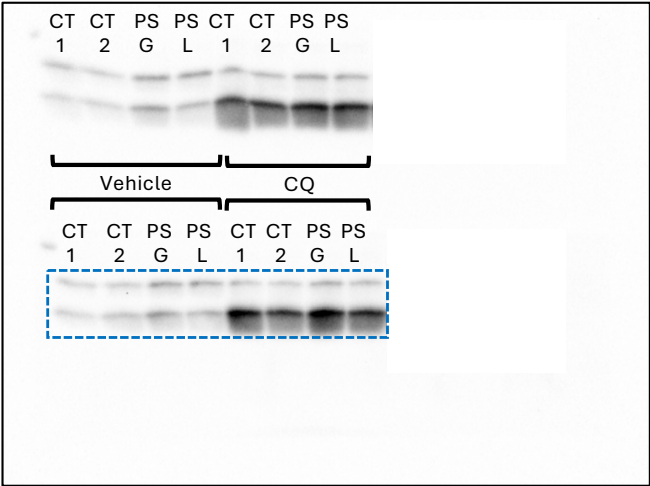


**Figure 3B**

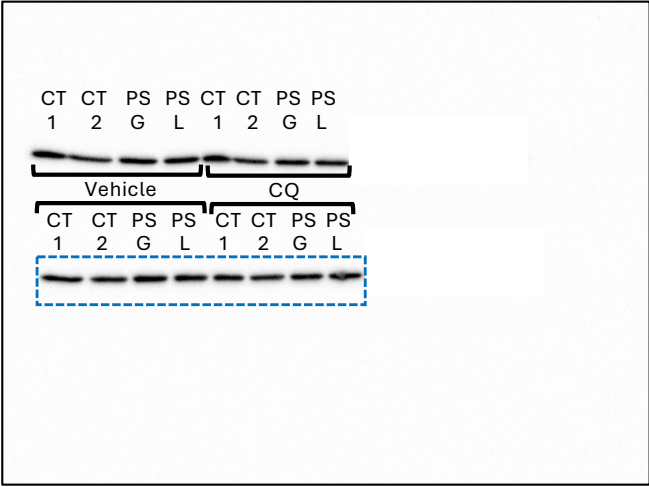
**p62**



**LC3**



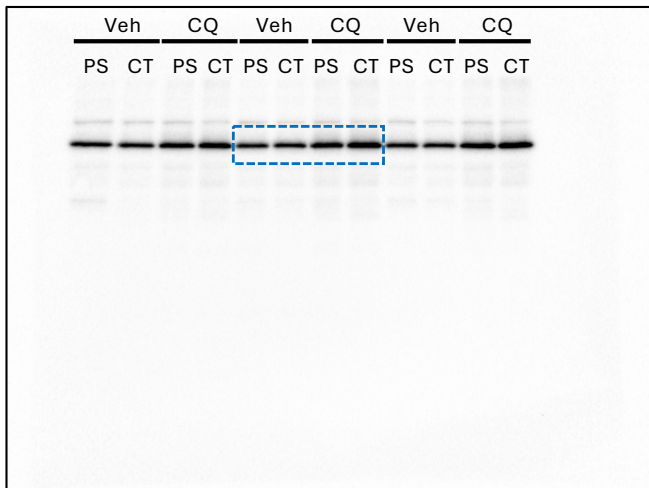
**GAPDH**



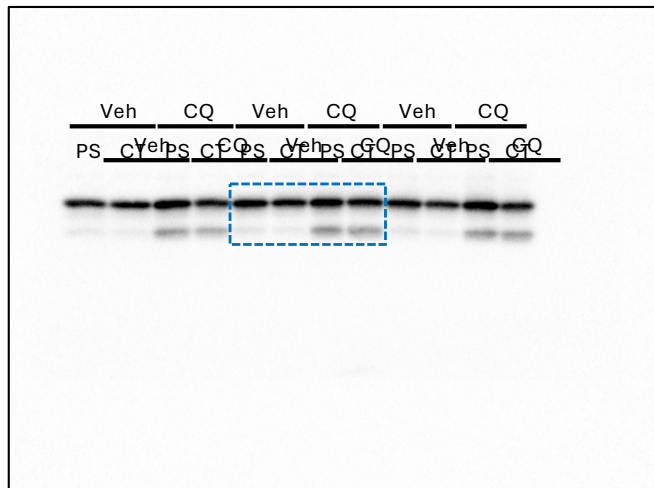
CT1: CTRL 1  
CT2: CTRL 2  
PS G: PSEN1 G206D  
PS L: PSEN1 L286P

# Figure 4A

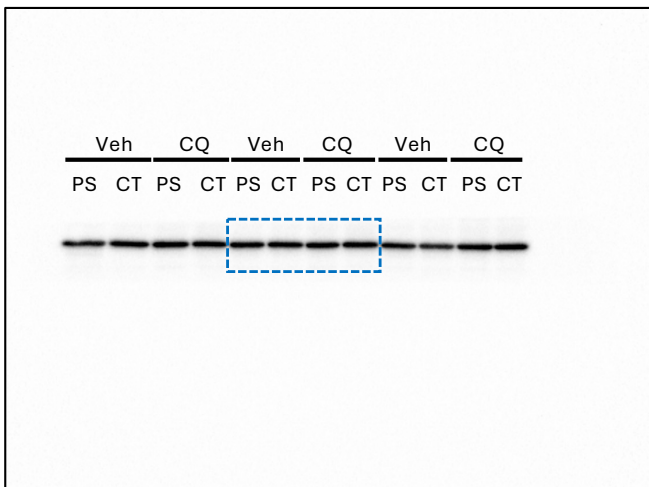
## p62



## LC3



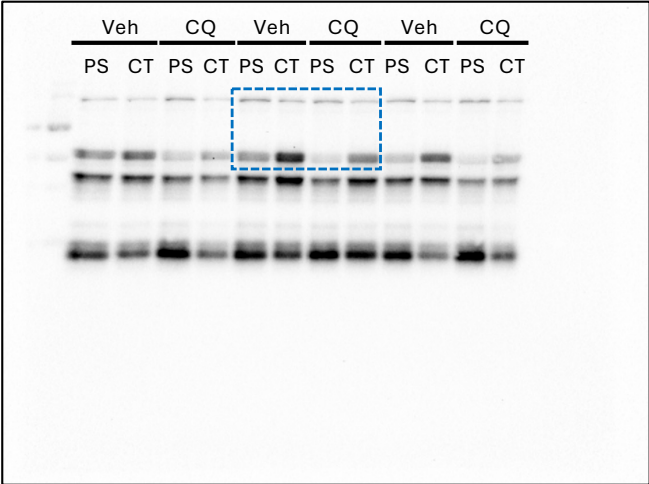
## GAPDH



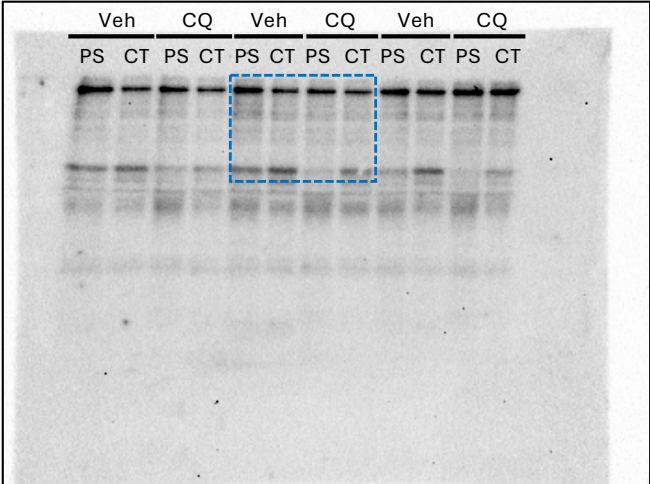
CT: CTRL  
PS: PSEN1 G206D

**Figure 4B**

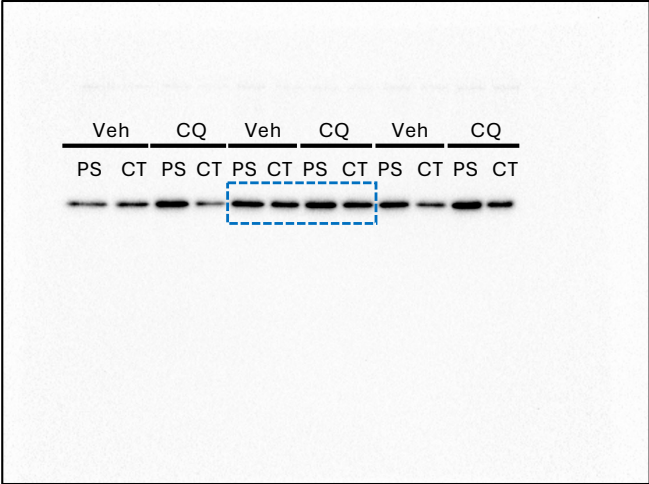
**Total Tau (D1M9X)**



**pTau Ser396/404 (PHF-1)**

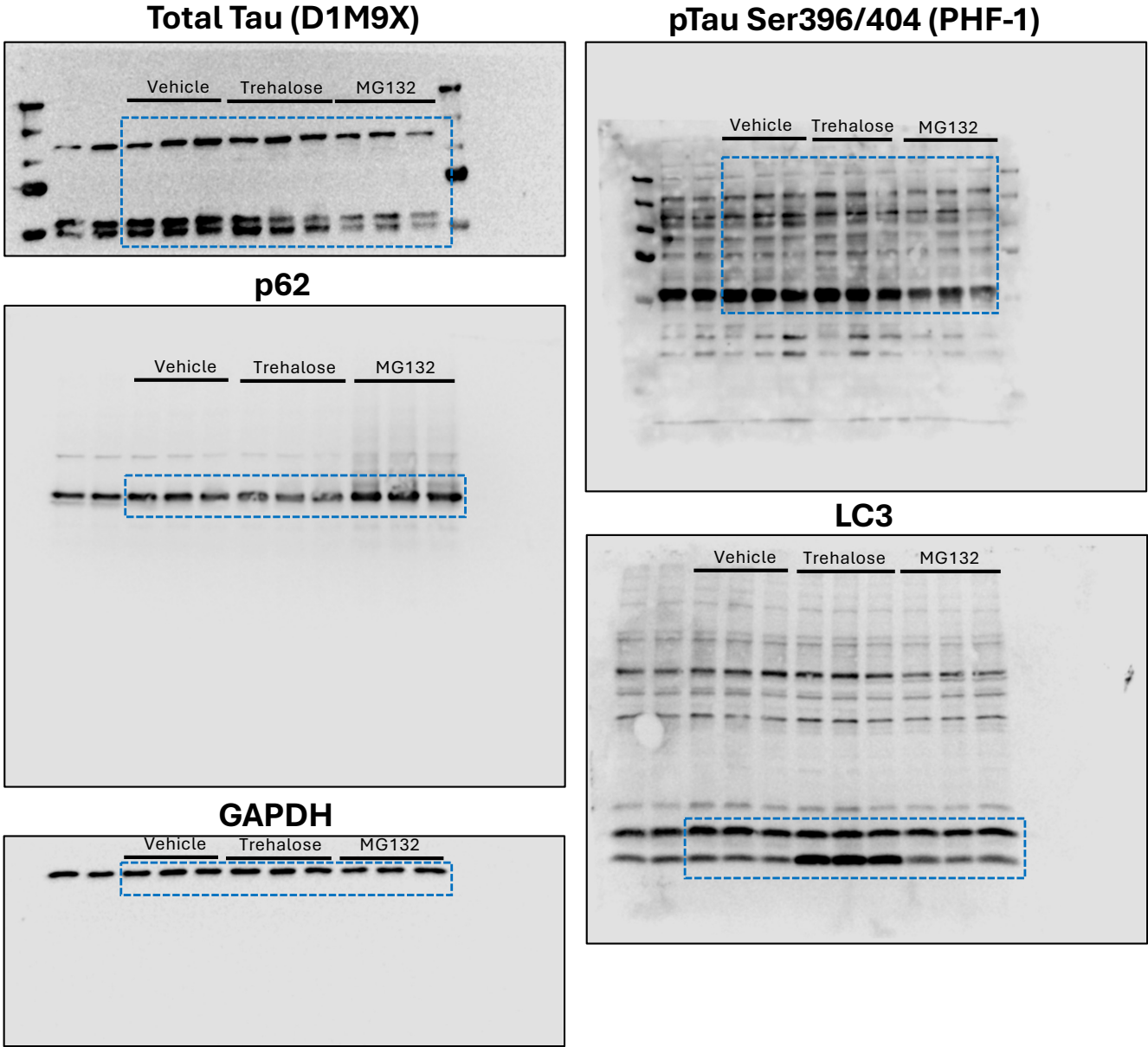


**GAPDH**



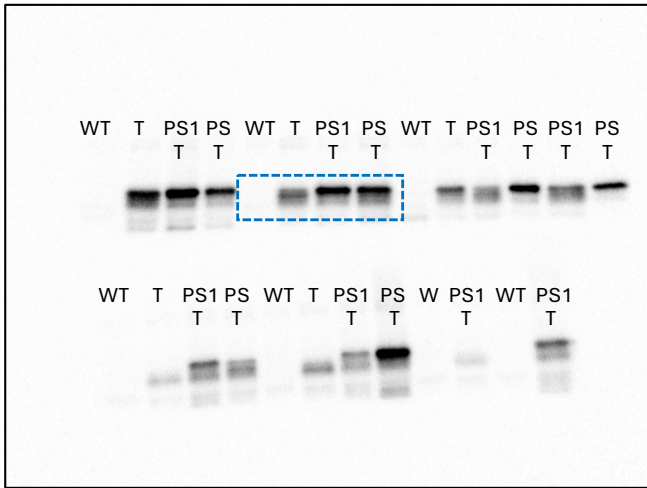
CT: CTRL  
PS: PSEN1 G206D

**Figure 4E**

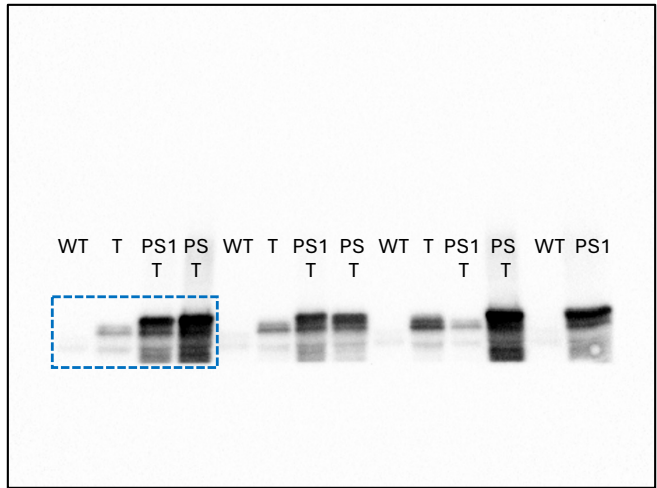


# Figure 5A

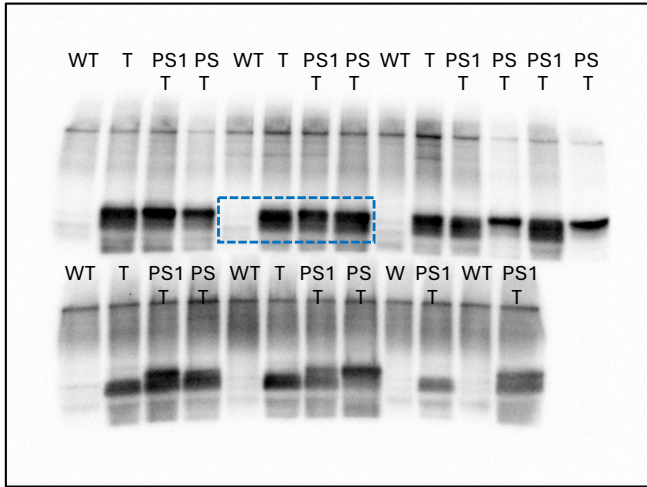
## pTau Thr217



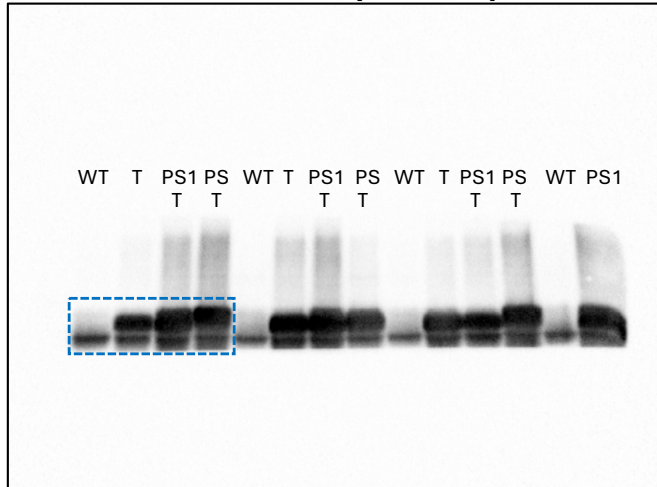
## pTau Ser202 (CP13)



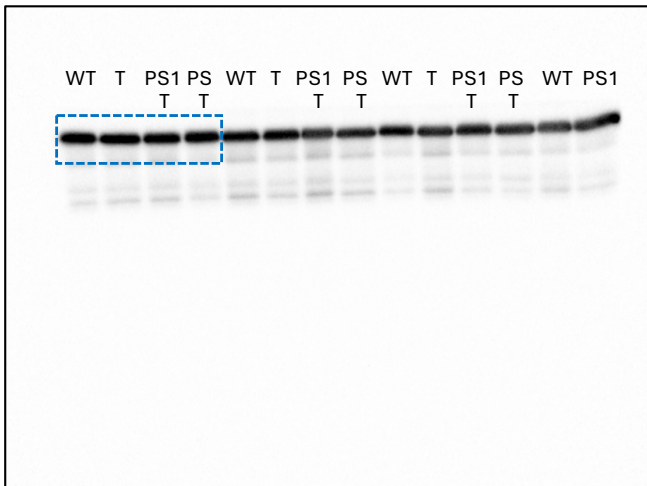
## pTau Thr181



## Total Tau (D1M9X)



## GAPDH

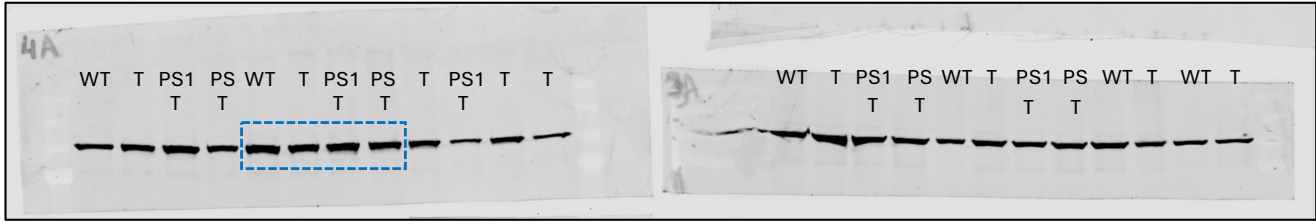


T: Tau  
 PS1 T: PS1cKO;Tau  
 PS T: PScKO;Tau

Figure 6A

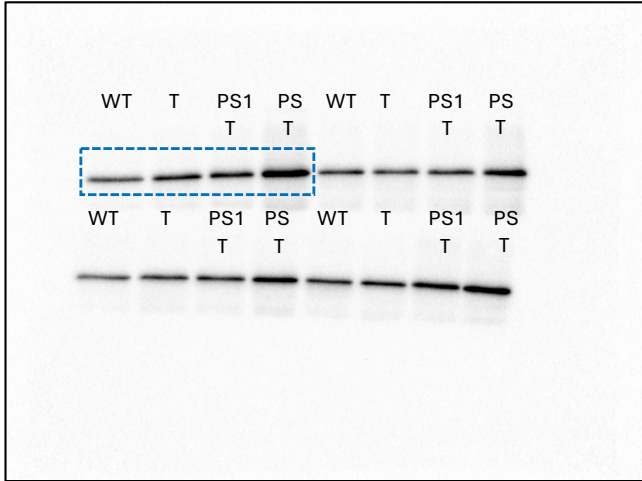
T: Tau  
PS1 T: PS1cKO;Tau  
PS T: PScKO;Tau

LAMP2A



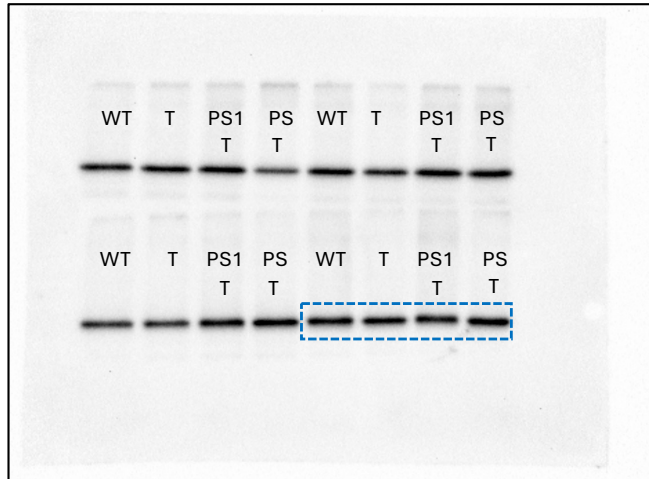
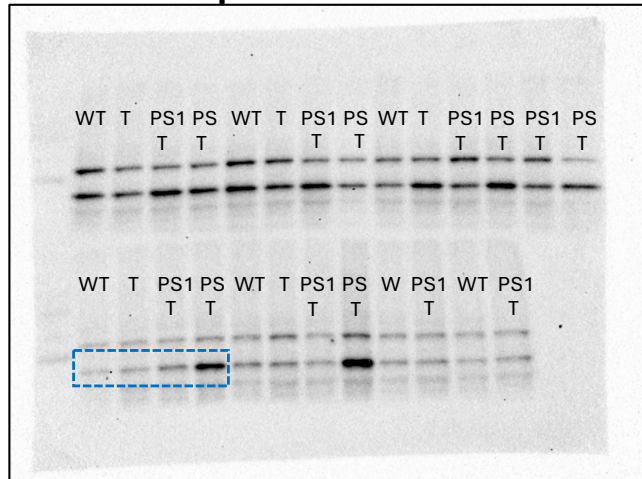
p62

pAkt Ser473



pAkt Thr308

Total Akt



pGSK3β Ser9

Total GSK3β

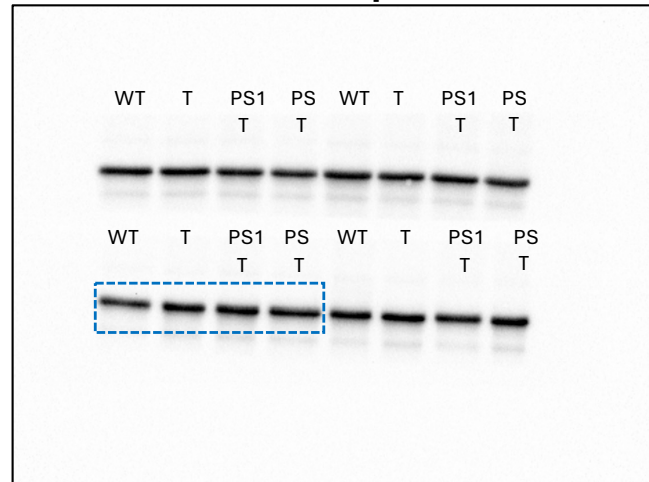
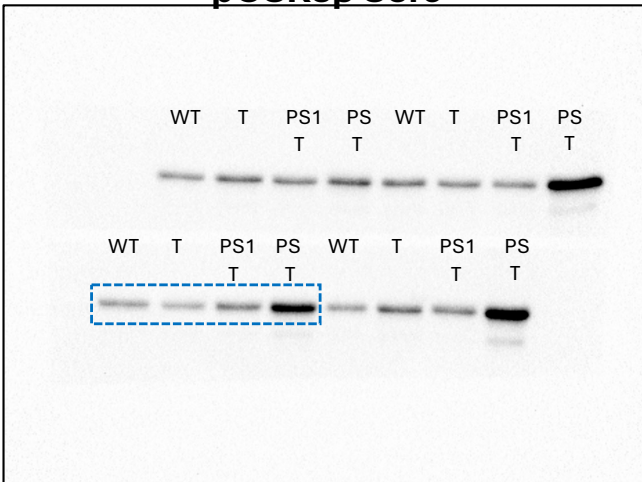
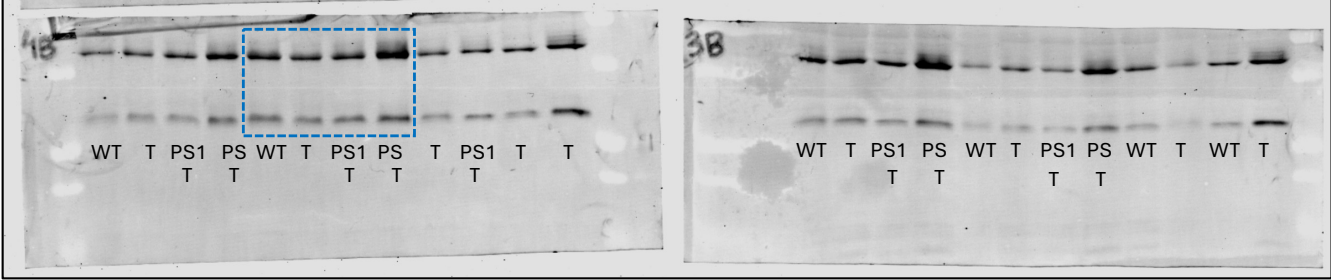


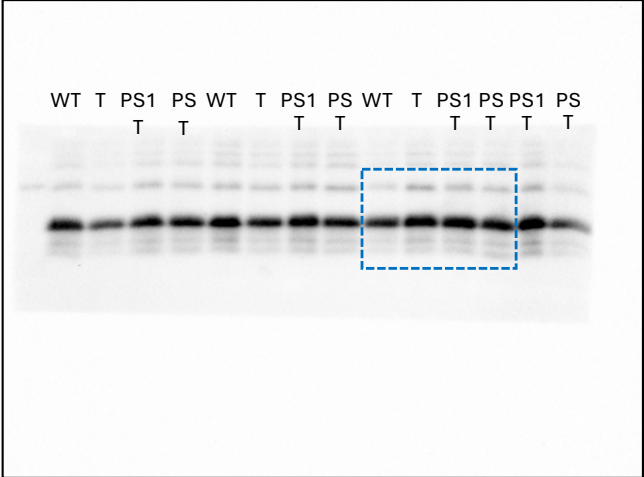
Figure 6A

T: Tau  
PS1 T: PS1cKO;Tau  
PS T: PScKO;Tau

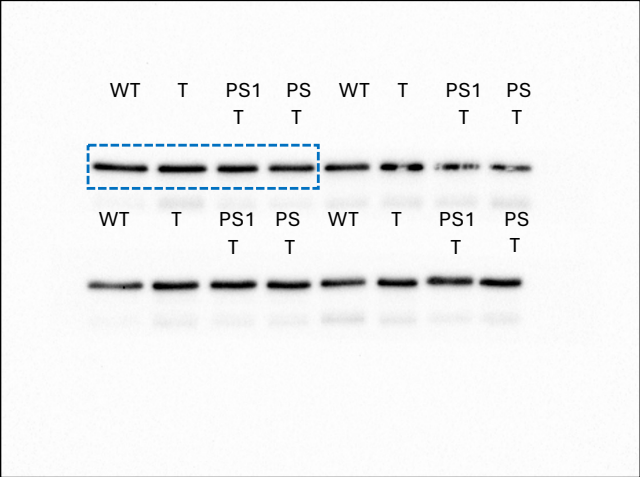
CTSD



LC3

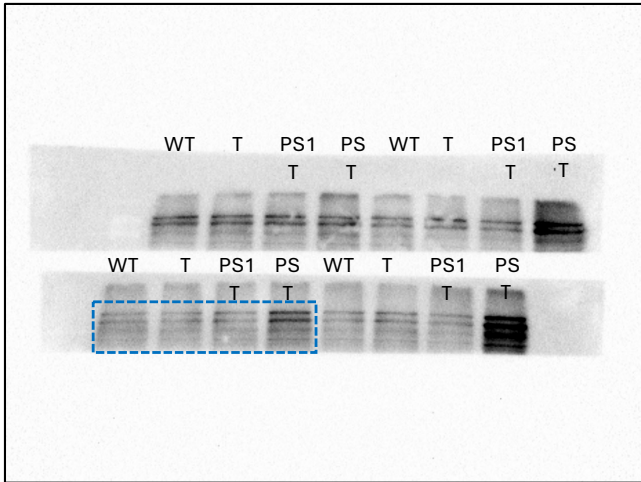


GAPDH

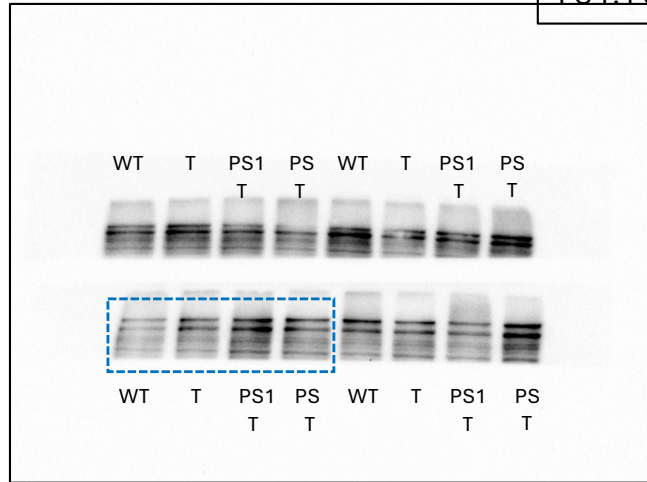


# Figure 6C

## pmTOR Ser2448

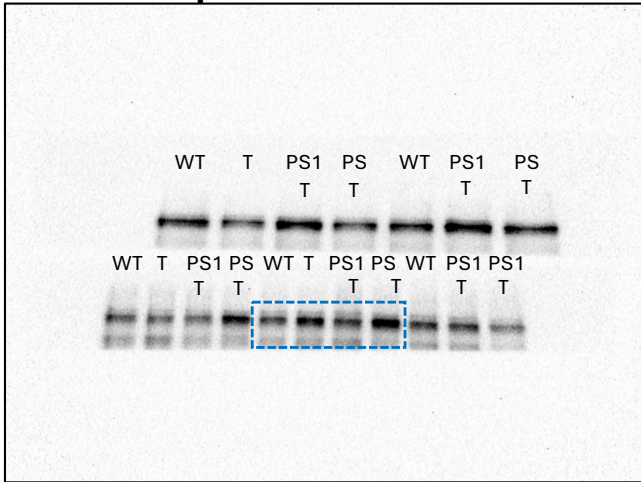


## Total mTOR

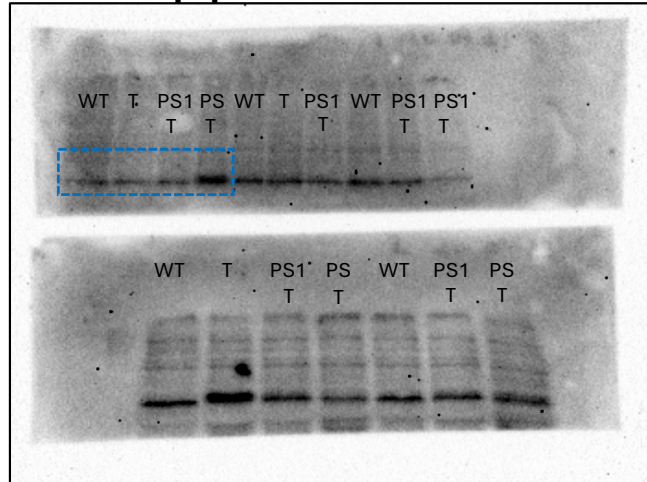


T: Tau  
PS1 T: PS1cKO;Tau  
PS T: PScKO;Tau

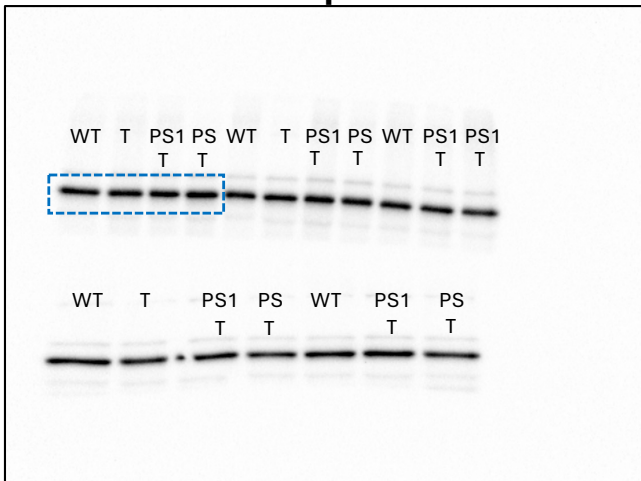
## pULK1 Ser757



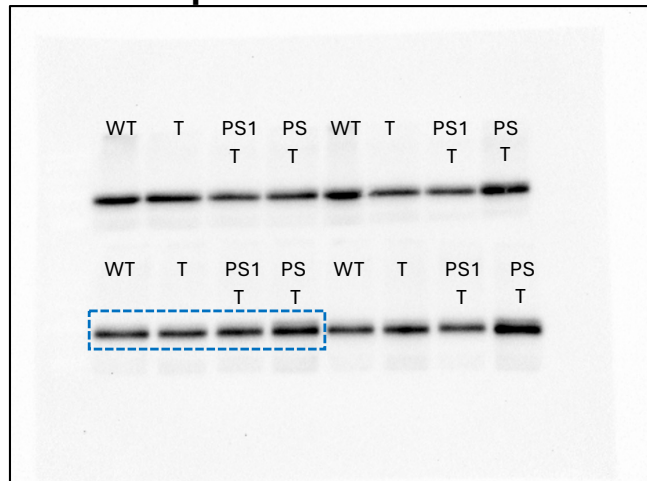
## p-p70S6K Thr389



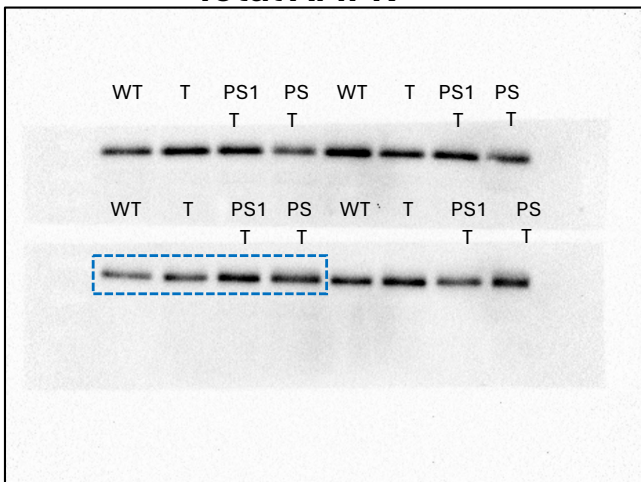
## Total p70S6K



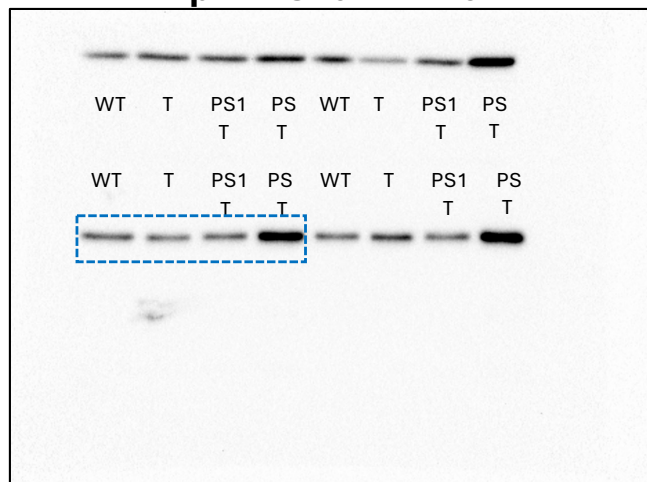
## pAMPK Thr 172



## Total AMPK



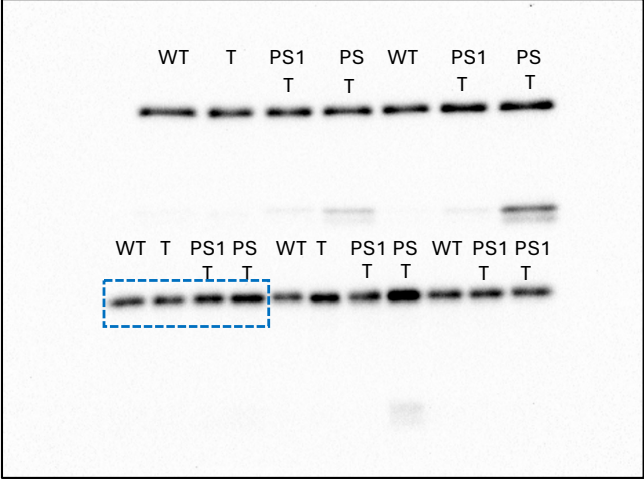
## pPRAS40 Thr246



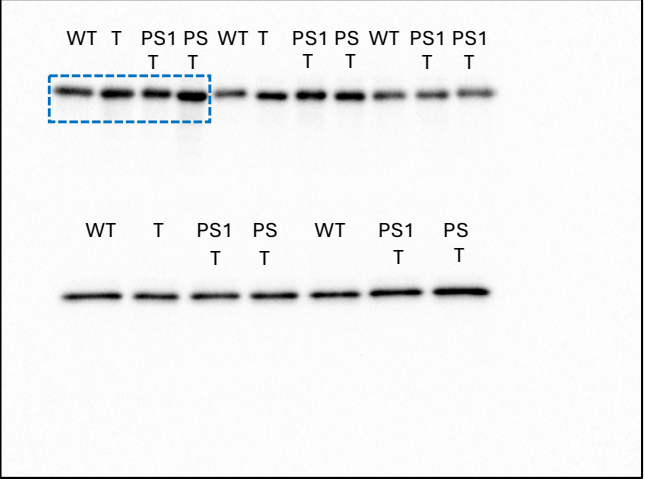
**Figure 6C**

T: Tau  
PS1 T: PS1cKO;Tau  
PS T: PScKO;Tau

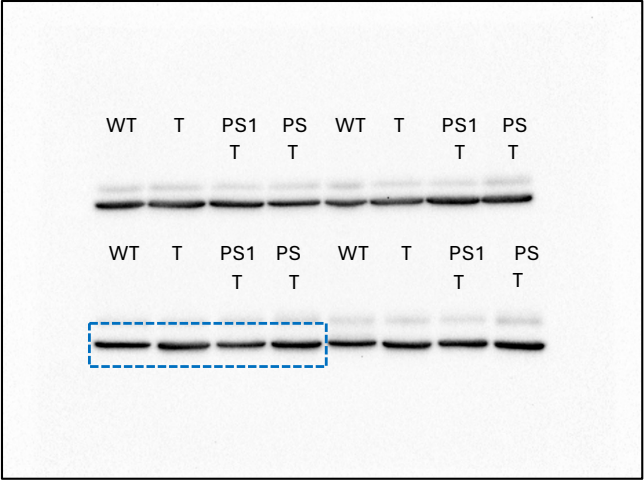
**pS6 Ser235/236**



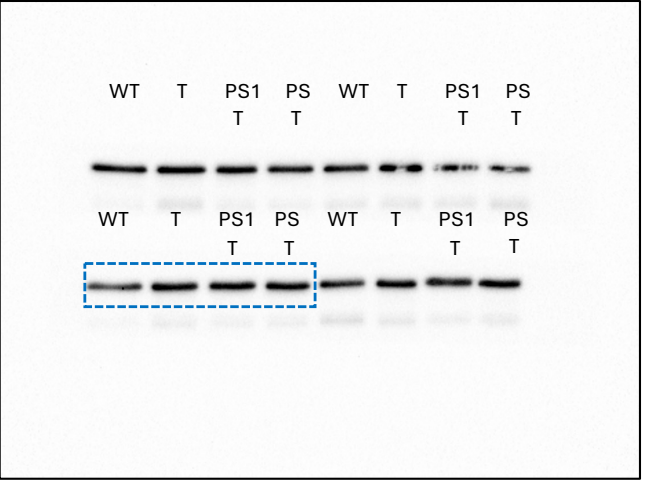
**Total S6**



**$\beta$ -tubulin**

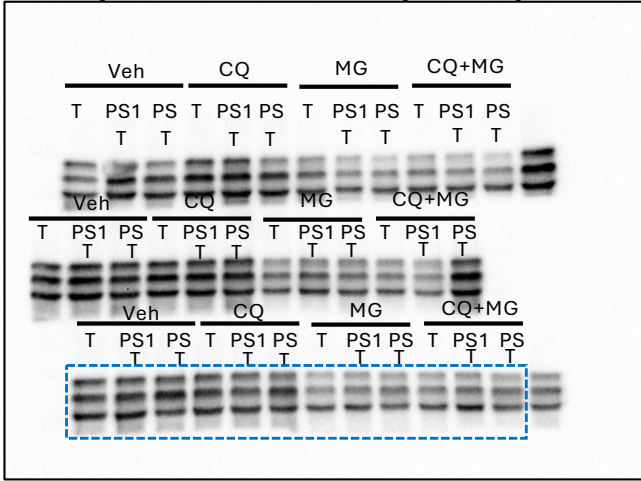


**GAPDH**

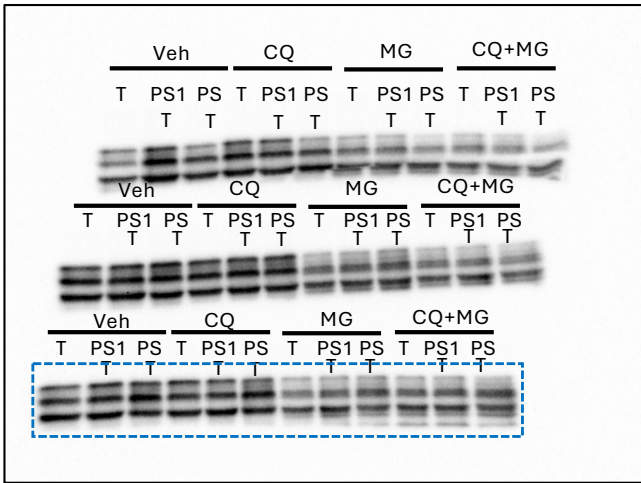


# Figure 7A

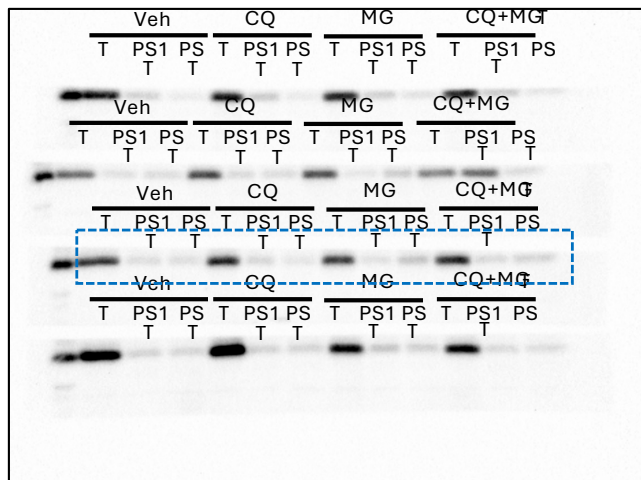
## pTau Ser396/404 (PHF-1)



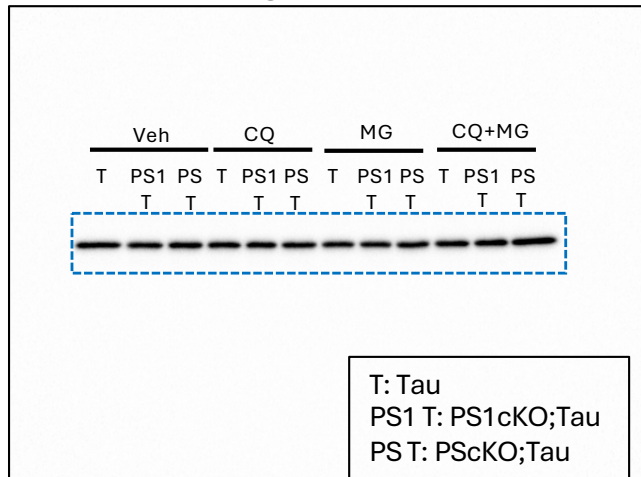
## Total Tau (D1M9X)



## PS1-NTF

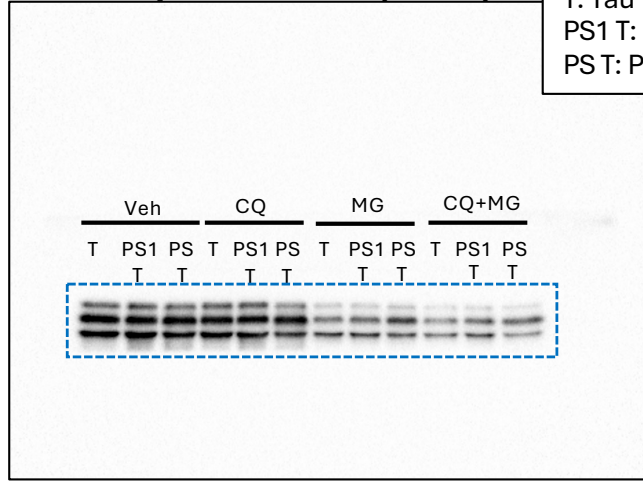


## GAPDH



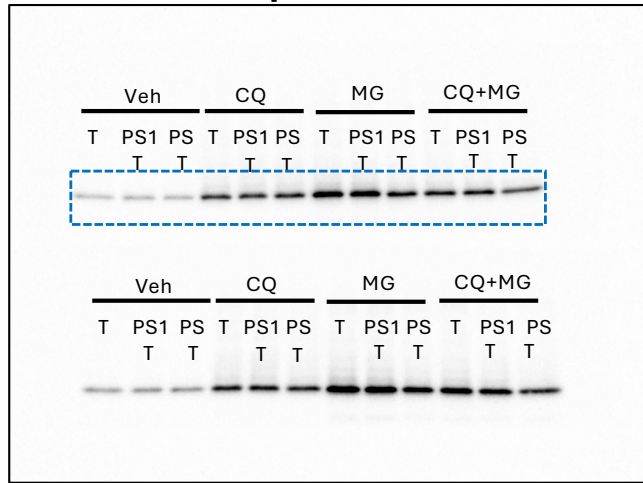
T: Tau  
PS1 T: PS1cKO;Tau  
PS T: PScKO;Tau

## pTau Ser202 (CP13)

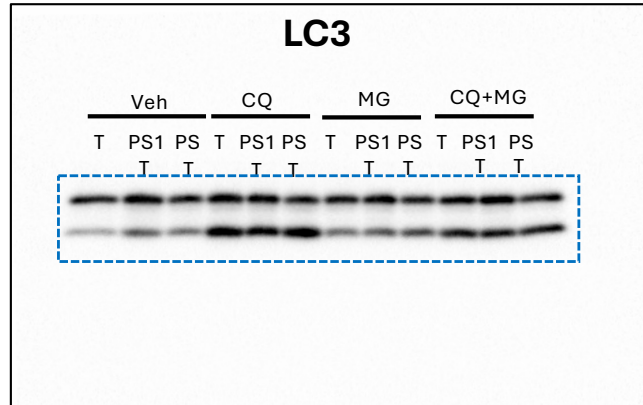


T: Tau  
PS1 T: PS1cKO;Tau  
PS T: PScKO;Tau

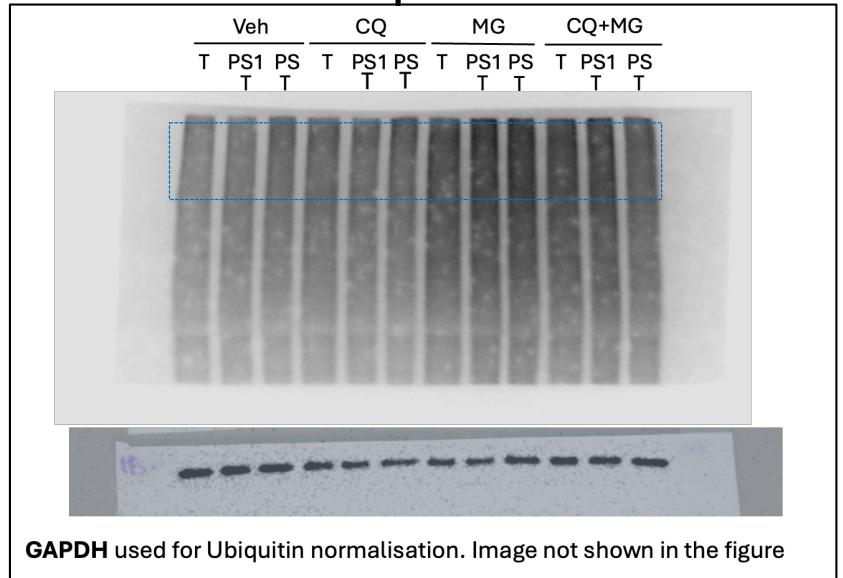
## p62



## LC3



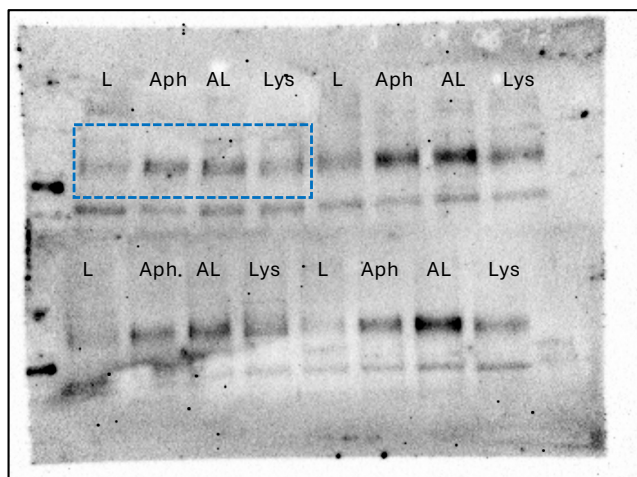
## Ubiquitin



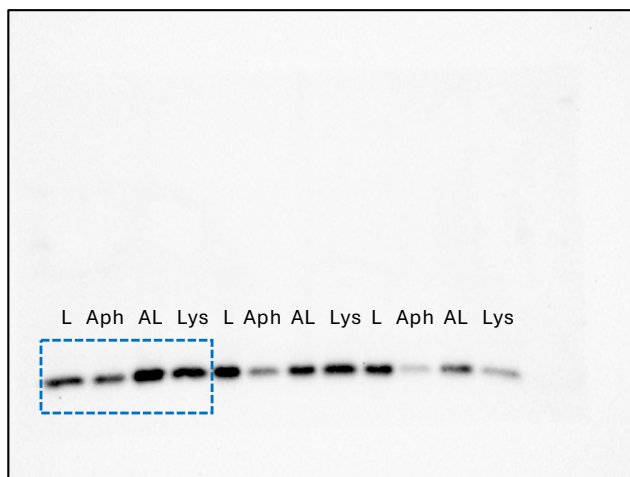
GAPDH used for Ubiquitin normalisation. Image not shown in the figure

# Supplementary Figure 1

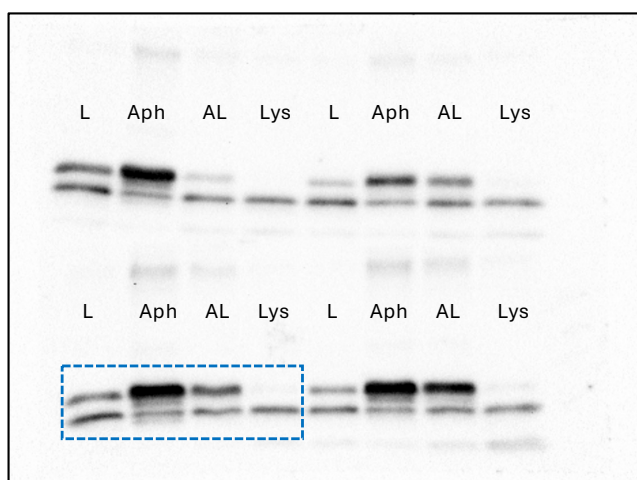
## LAMP2A



## Cathepsin D (CTSD)



## LC3



L: Lysate  
Aph: Autophagosomes  
AL: Autolysosomes  
Lys: Lysosomes