

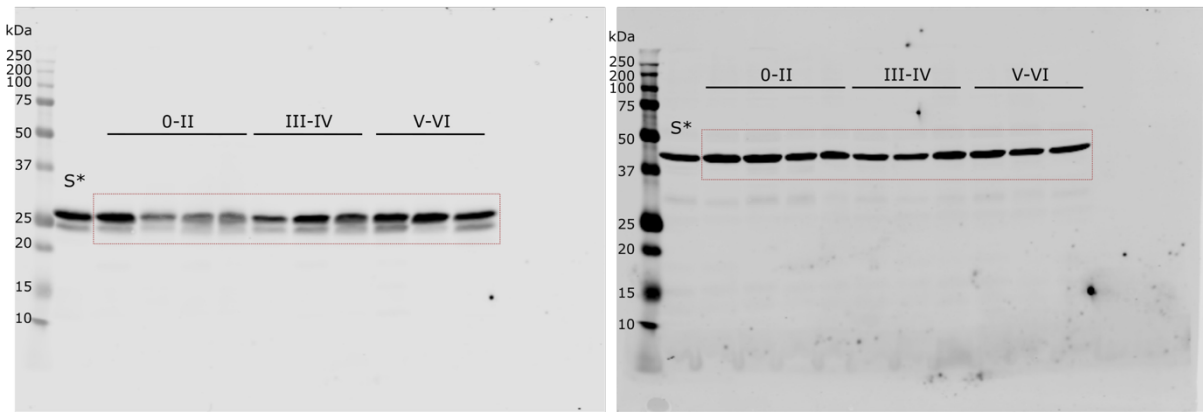
An astrocyte-neuron HSPB1 axis preserves lysosomal integrity and protects from tau pathology.

Western blot membranes

Figure 1

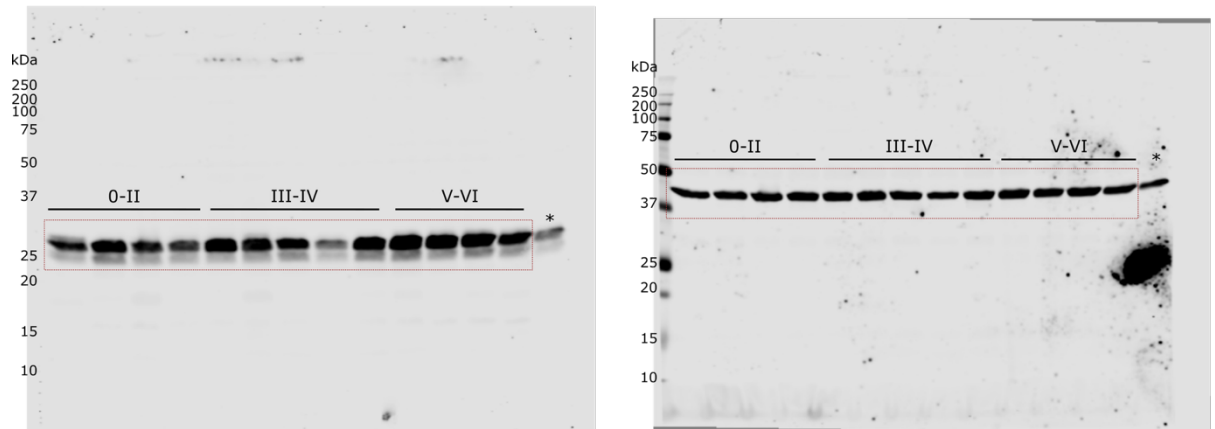
A

BA9



**HSPB1** (secondary rabbit-800)  
 **$\beta$ -actin** (secondary mouse-680)  
S\* (human brain sample included on each western blot of the dataset and use to standardized across WB)  
Dotted line indicates the lanes included in the main figure

BA21



**HSPB1** (secondary anti rabbit-800)  
Dotted line indicates the lanes included in the main figure  
\* Excluded sample due to degradation.

**$\beta$ -actin** (secondary anti mouse-680)

Figure 2

B

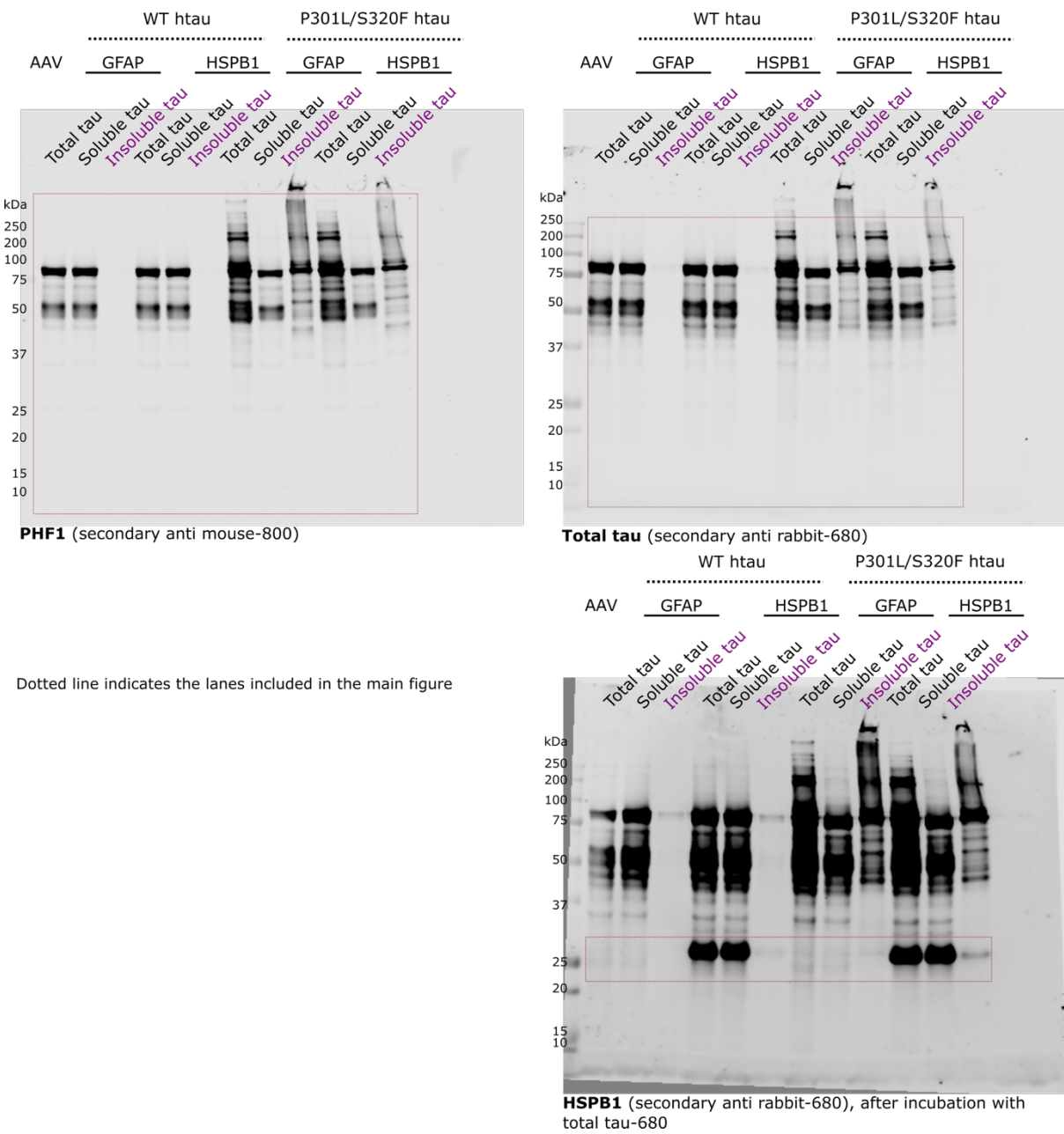
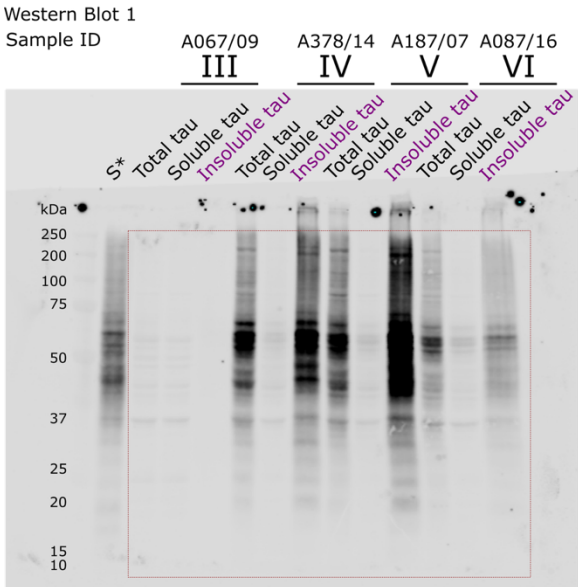


Figure 2

D

Western Blot 1  
Sample ID



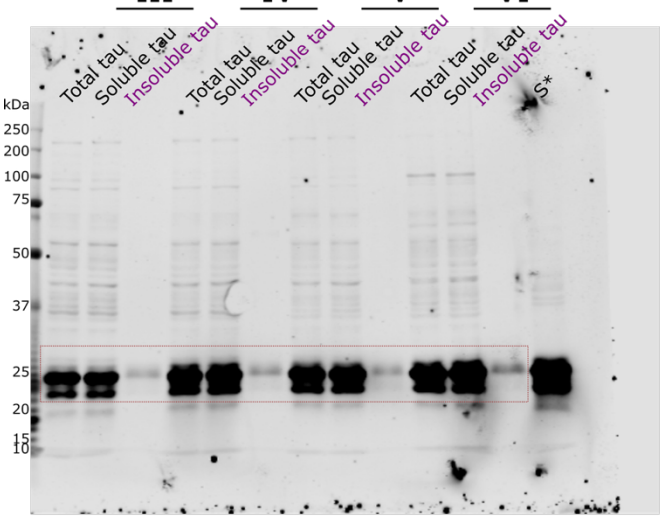
PHF1 (secondary anti mouse-800)

S\* (human brain sample included on each western blot of the dataset and use to standardized across WB)

Dotted line indicates the lanes included in the main figure

Western Blot 2

Sample ID A067/09 A378/14 A187/07 A087/16  
III IV V VI

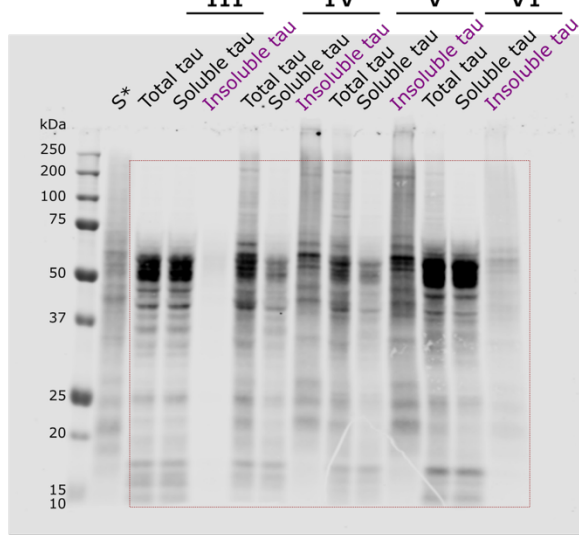


HSPB1 (secondary anti rabbit-800)

S\* (human brain sample included on each western blot of the dataset and use to standardized across WB)

Dotted line indicates the lanes included in the main figure

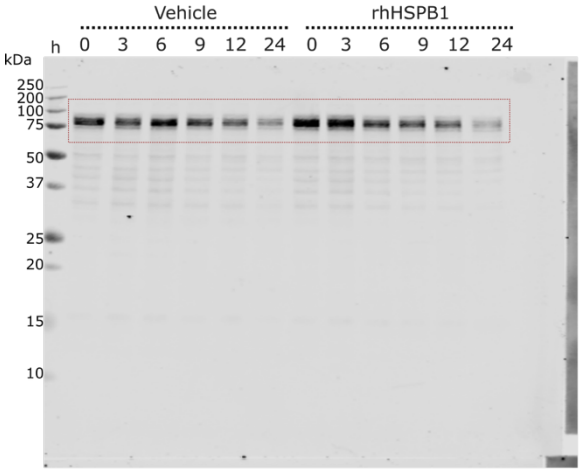
Sample ID A067/09 A378/14 A187/07 A087/16  
III IV V VI



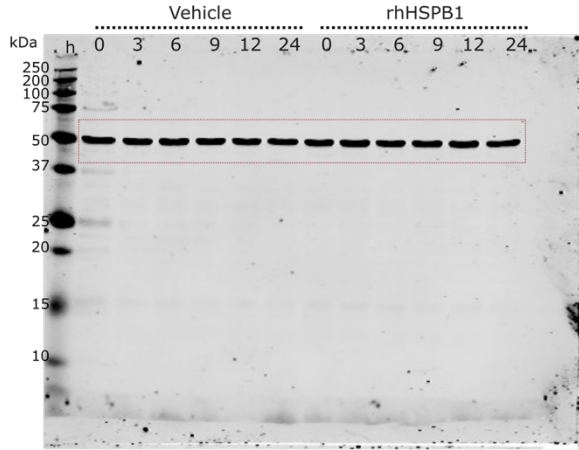
Total tau (secondary anti rabbit-680)

**Figure 7**

**F**

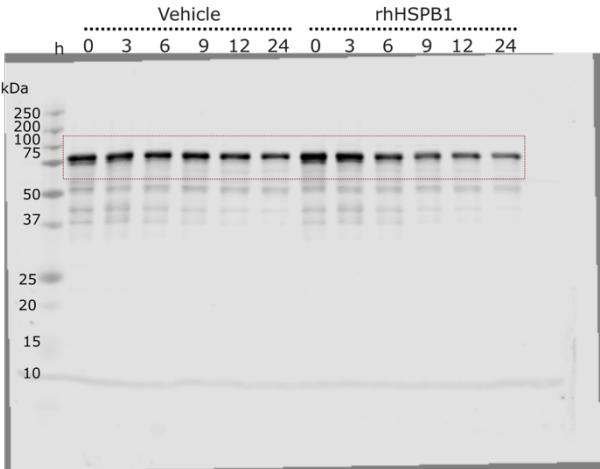


**total tau** (secondary anti rabbit-800).

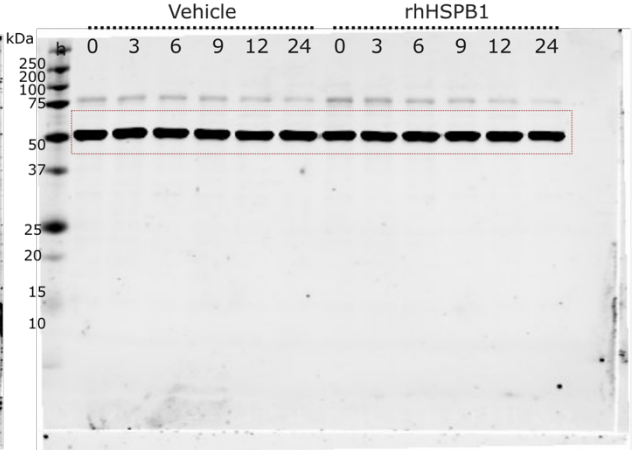


**$\alpha$ -tubulin** (secondary anti mouse-800)

**G**



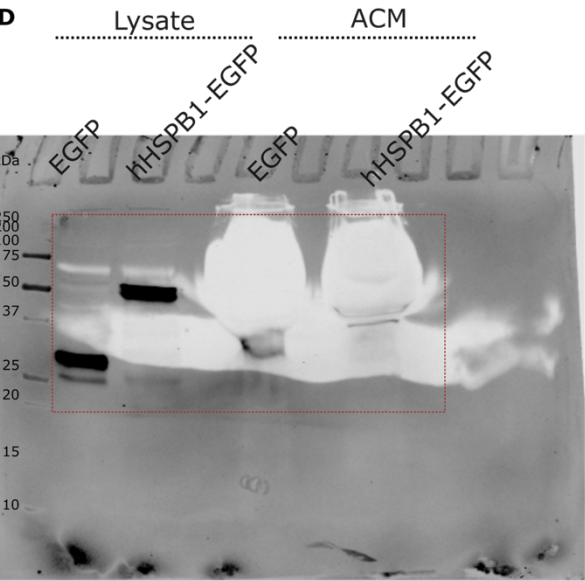
**total tau** (secondary anti rabbit-800)



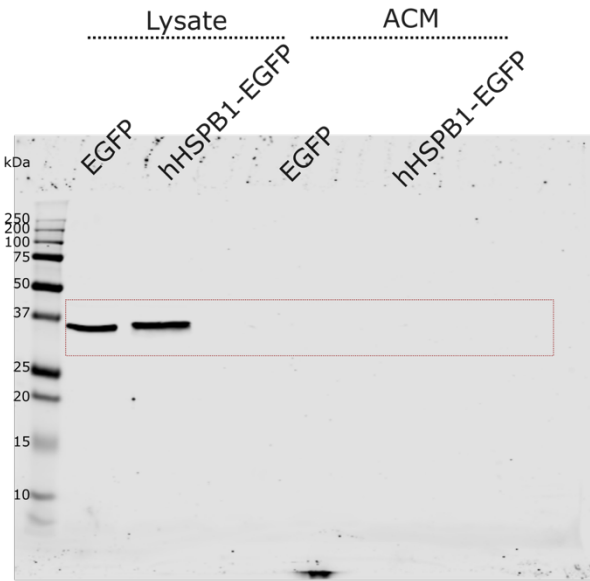
**$\alpha$ -tubulin** (secondary anti mouse-800)

Dotted line indicates the lanes included in the main figure  
(human EGFP-tagged tau or loading control)

Supplementary Figure 2



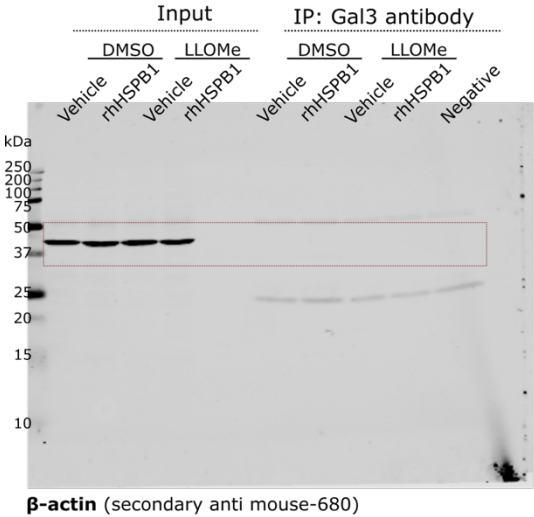
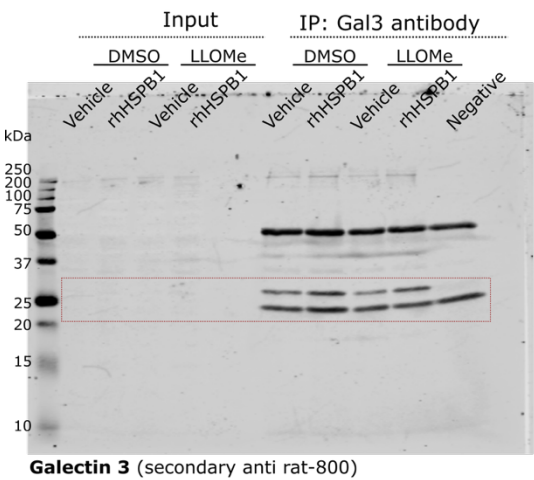
**EGFP** (secondary anti rabbit-800)  
Dotted line indicates the lanes included in the main figure



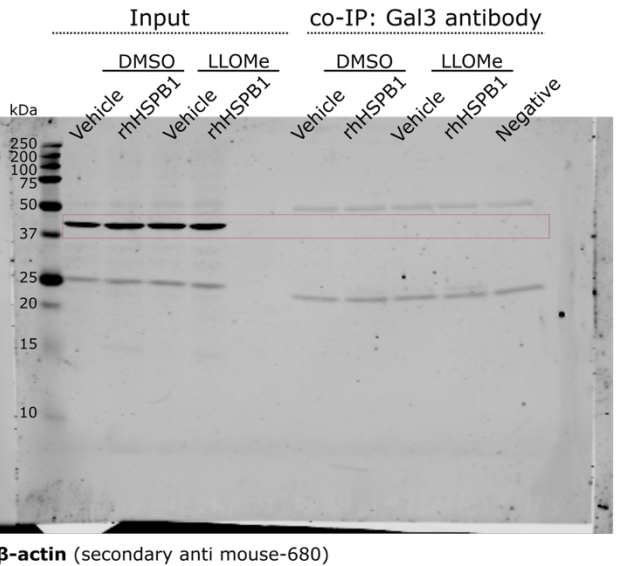
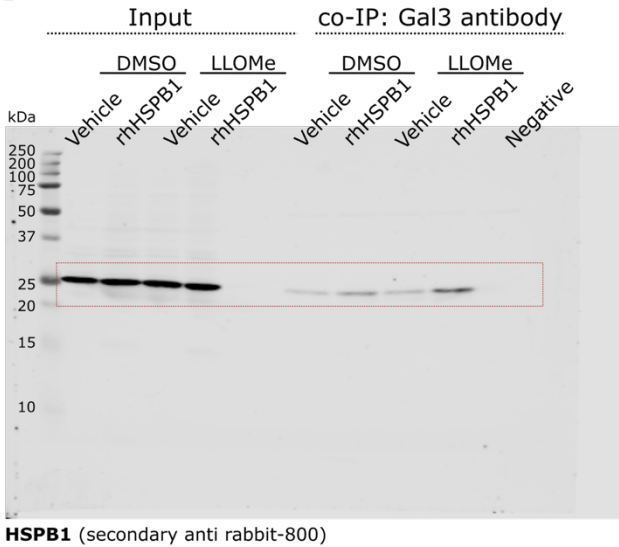
**GAPDH** (secondary anti mouse-680)

# Supplementary Figure 3

A



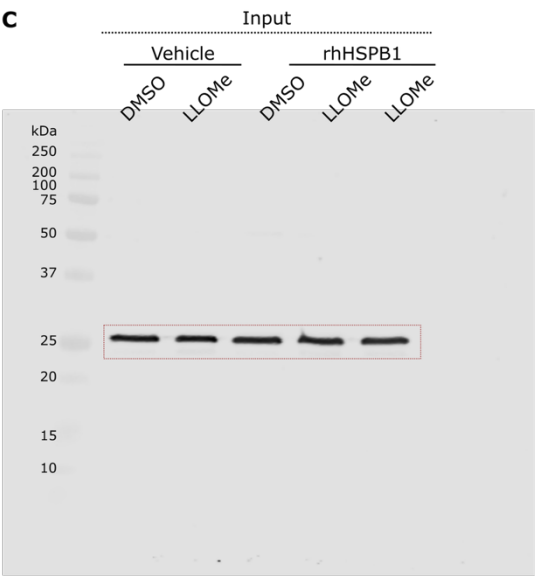
B



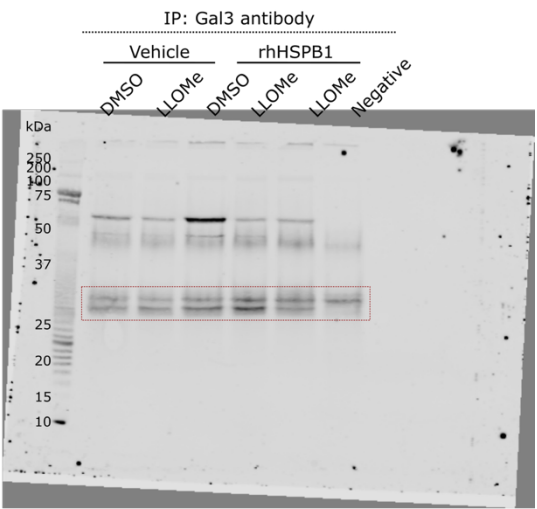
Dotted line indicates the lanes included in the main figure

# Supplementary Figure 3

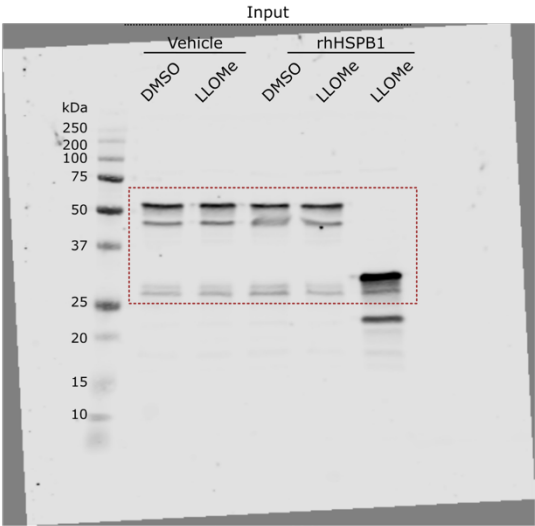
C



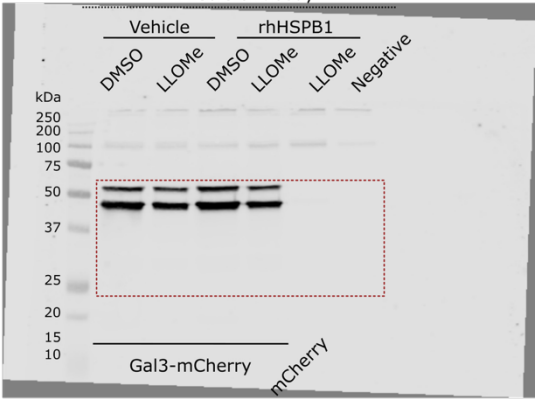
**HSPB1** (secondary anti rabbit-800)  
Dotted line indicates the lanes included in the main figure



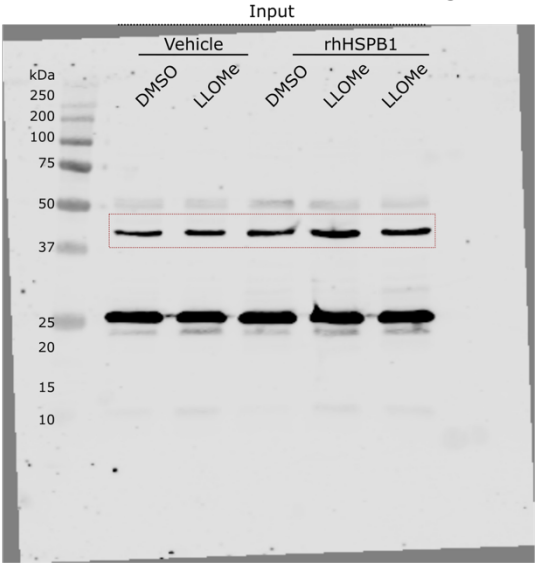
**HSPB1** (secondary anti rabbit-800)  
Dotted line indicates the lanes included in the main figure  
IP: Gal3 antibody



**mCherry** (secondary anti mouse-680)  
Dotted line indicates the lanes included in the main figure

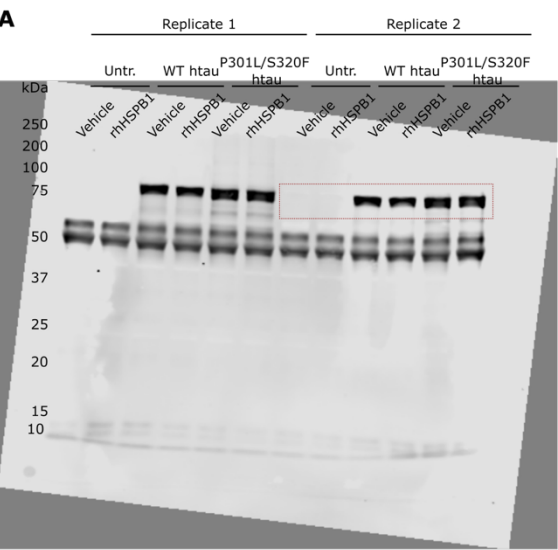


**mCherry** (secondary anti mouse-680)  
Dotted line indicates the lanes included in the main figure

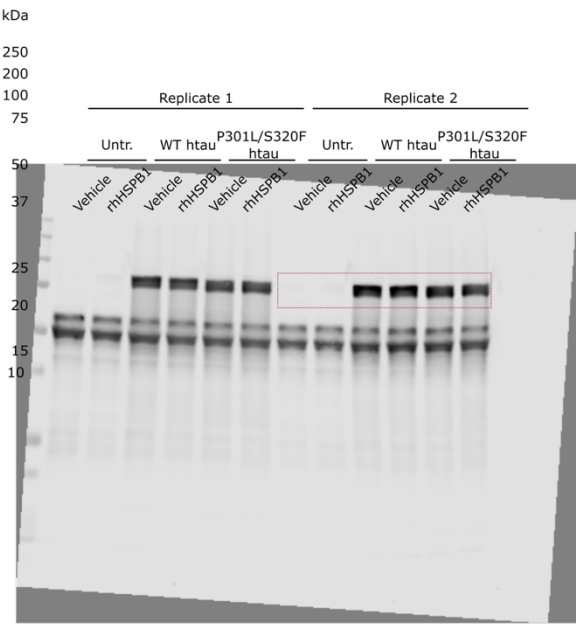


**$\beta$ -actin** (secondary anti rabbit-800), after the incubation with HSPB1-800 and mCherry-680.  
Dotted line indicates the lanes included in the main figure

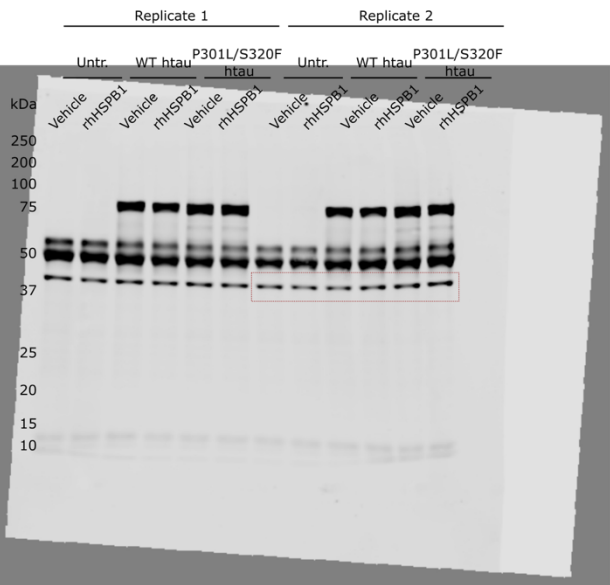
# Supplementary Figure 4



**PHF1** (secondary anti mouse-800)



**Total tau** (secondary anti mouse-800)



**β-actin** (secondary anti mouse-800), after incubation with PHF1-800 and total tau-680

Dotted line indicates the lanes included in the main figure (human tau EGFP-tagged or loading control)  
Replicate 1 and 2 are two technical replicates of neurons treated in the same plate