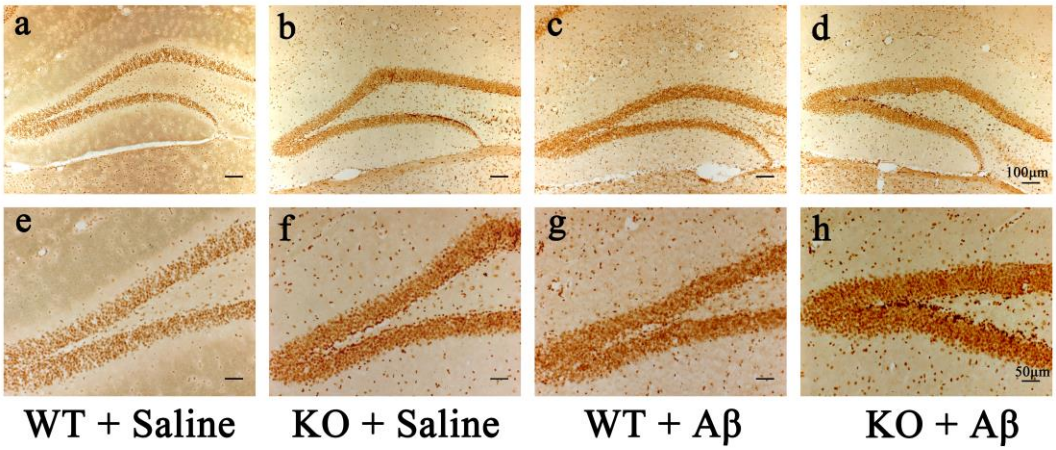
Supplementary Information



Supplementary Fig. 1 **The effects of *Ftmt* deficiency on iron accumulation in hippocampus.** To confirm the effect of FtMt on iron metabolism after $A\beta_{25\text{-}35}$ injection, we detected iron levels of hippocampi in each group, using Perls'+DAB (3,3′-diaminobenzidine) method [1-4]. Serial sections (15μm) were cut using a cryostat microtome (Leica CM1950) and mounted on slides. Prior to staining, sections were treated with methanol containing 3% hydrogen peroxide for 10 minutes. After washing with 0.01M PBS, sections were stained with Prussian blue, mixing 1% potassium ferrocyanide with 1% HCl for 8 hours at 37℃. Then sections were washed in 0.01M PBS and treated with DAB solution for 5 minutes. PBS, phosphate buffered saline. Low (a-d) and High-power (e-h) view of histological sections from dentate gyrus showing iron levels were increased in wild type and *Ftmt* knockout mice after injecting $A\beta_{25\text{-}35}$ and the highest amount of iron was observed in KO + $A\beta_{25\text{-}35}$ group. In addition, the iron level was also increased in the KO + Saline group when compared to the WT + Saline group.

References

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