

Supplementary Figures

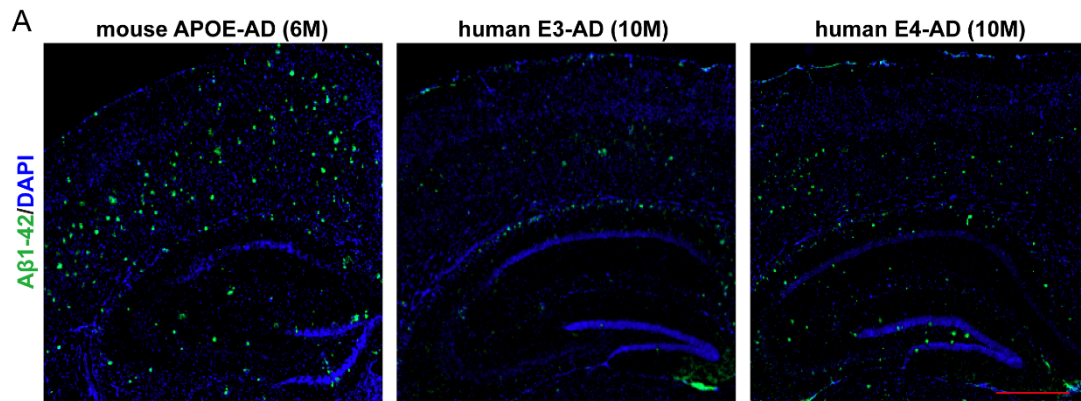


Figure S1. Human APOE3 and APOE4 causes less A β deposition than mouse APOE in the brain of *5xFAD* mice.

Representative images of immunofluorescence staining of A β 1-42 in the brains of 6-month-old (6M) *5xFAD* mice expressing the endogenous mouse APOE and 10-month-old (10M) E3-AD and E4-AD mice. red scale scar: 500 μ m

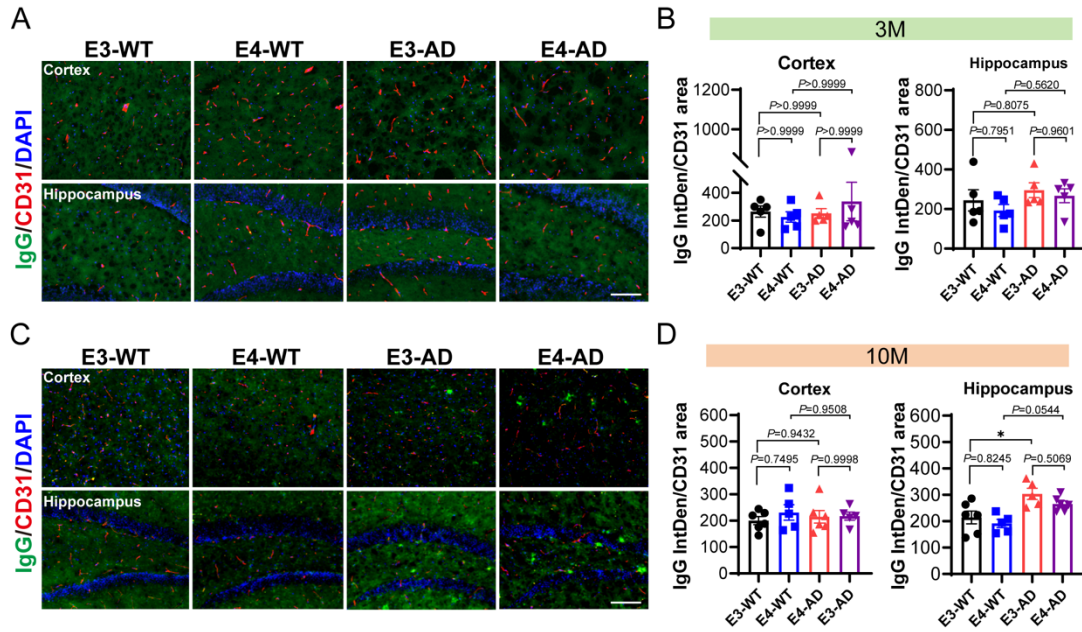


Figure S2. Human APOE4 makes no differences in BBB disruption compared to human APOE3 in the brain of 5xFAD mice at the presymptomatic stage.

(A-B) Representative images and quantification of co-immunofluorescence staining of endogenous plasma IgG with CD31 (a marker for endothelial cells) in the cortex and hippocampus of 3-month-old mouse brains. $n=5$ mice/group. (C-D) Representative images and quantification of co-immunofluorescence staining of endogenous plasma IgG with CD31 in the cortex and hippocampus of 10-month-old mouse brains. $n=5-6$ mice/group. White scale scar: 50 μ m. * $P < 0.05$, data of (B) left panel were analyzed using Kruskal-Wallis test, the others were analyzed using one-way ANOVA with post hoc Tukey's test.