SUPPLEMENTARY DATA

TITLE: Quercetin ameliorates neuroinflammatory and neurodegenerative biomarkers in brain and improves neurobehavioral parameters in repeated intranasal amyloid-beta exposed model of Alzheimer's disease

Phosphorylated-Tau (S199)

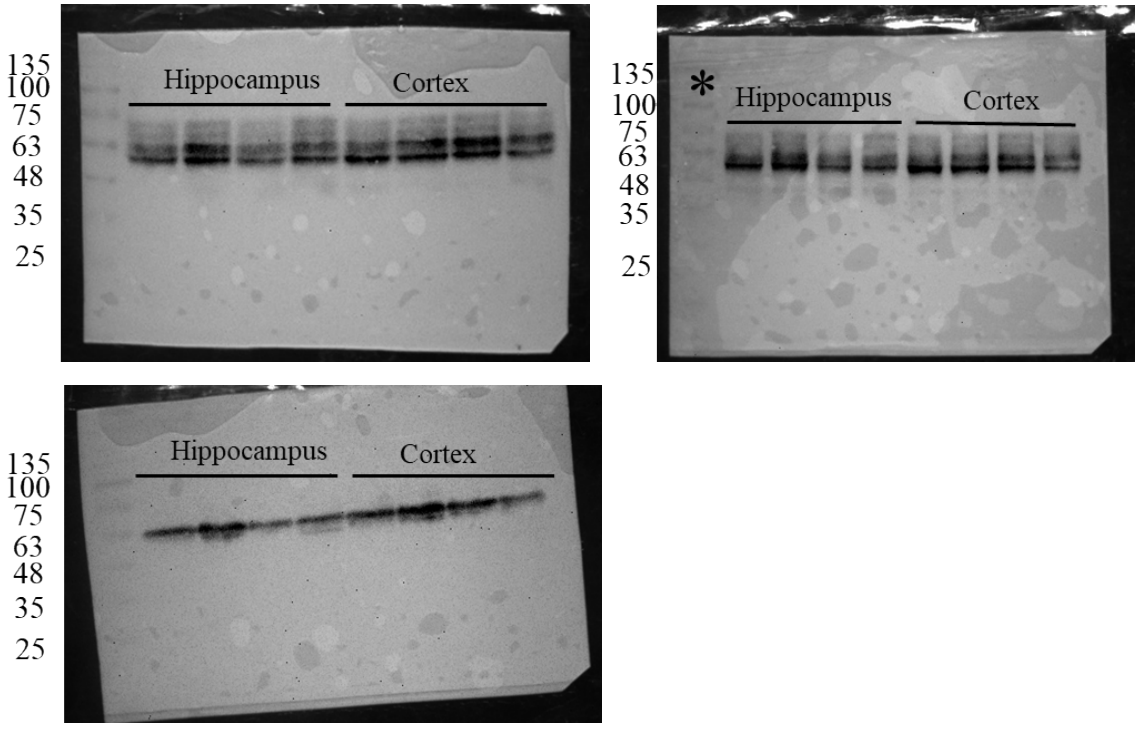

Fig. 1 Effect of oral treatment with quercetin on the expression of p-Tau in hippocampus and cortex of $A\beta_{1-42}$-exposed mouse. p-Tau: phosphorylated tau.

Total tau

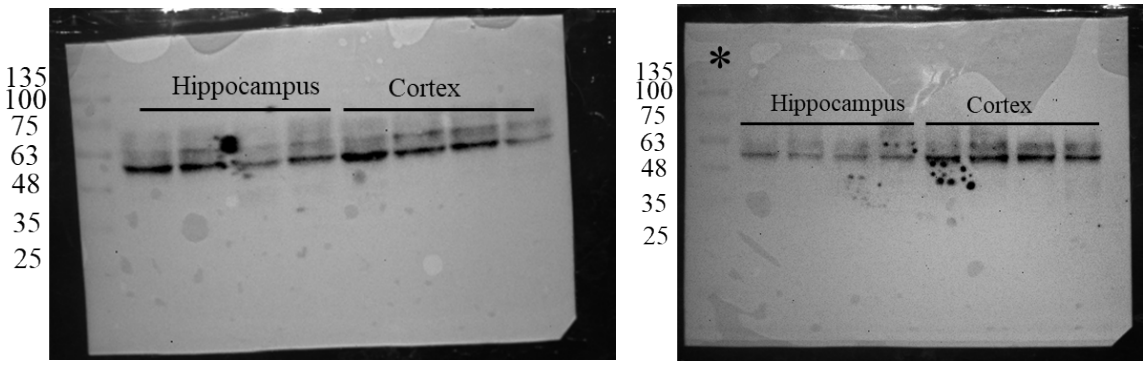

Fig. 2 Effect of oral treatment with quercetin on the expression of total-tau in hippocampus and cortex of $A\beta_{1-42}$-exposed mouse.

*** Representative blots used in manuscript**

BACE1

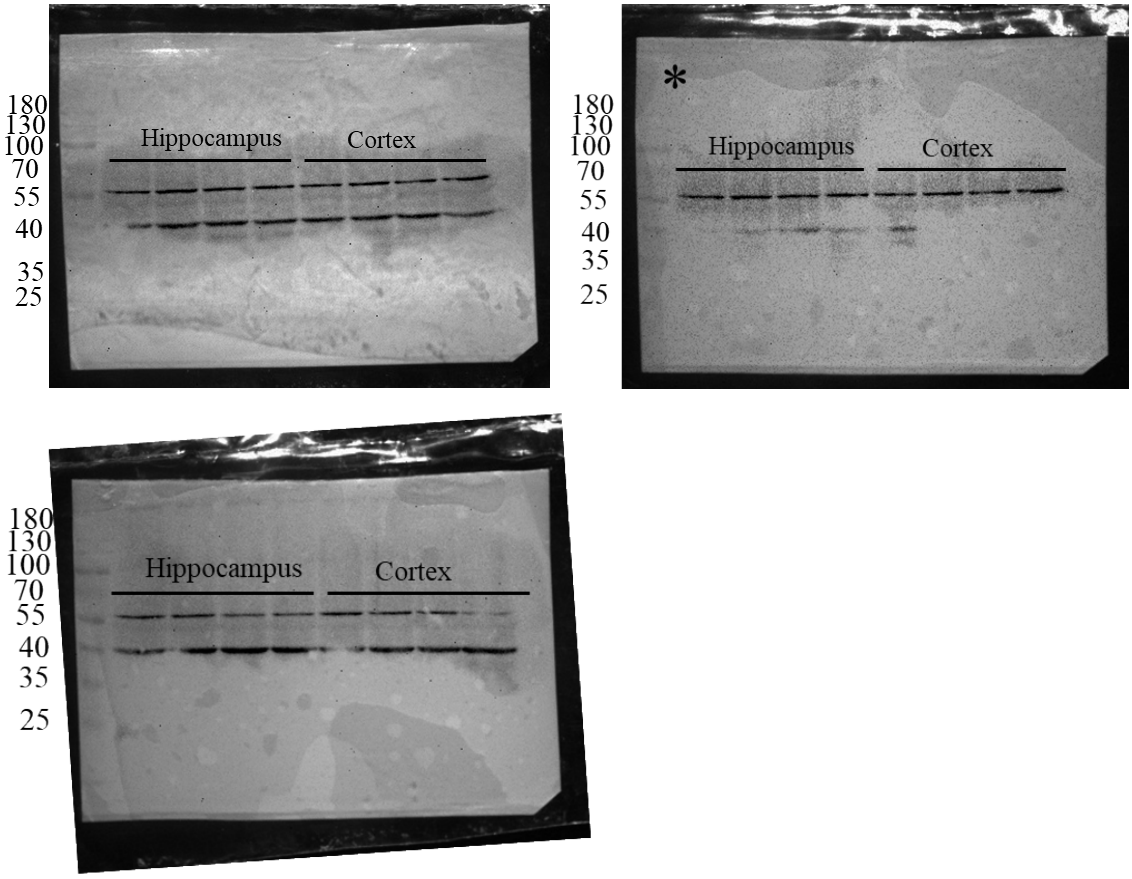

Fig. 3 Effect of oral treatment with quercetin on the expression of BACE-1 in hippocampus and cortex of $A\beta_{1-42}$-exposed mouse. BACE: beta-site of APP cleaving enzyme.

Beta actin

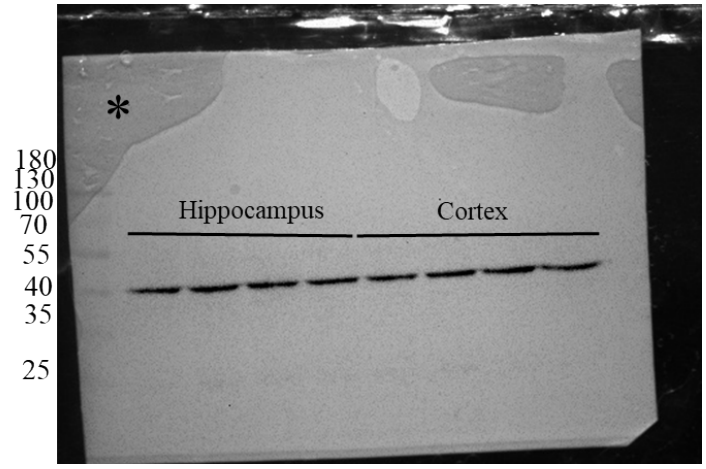

Fig. 4 Expression of beta actin protein in the blot of Fig 3 after stripping.

*** Representative blots used in manuscript**

GFAP

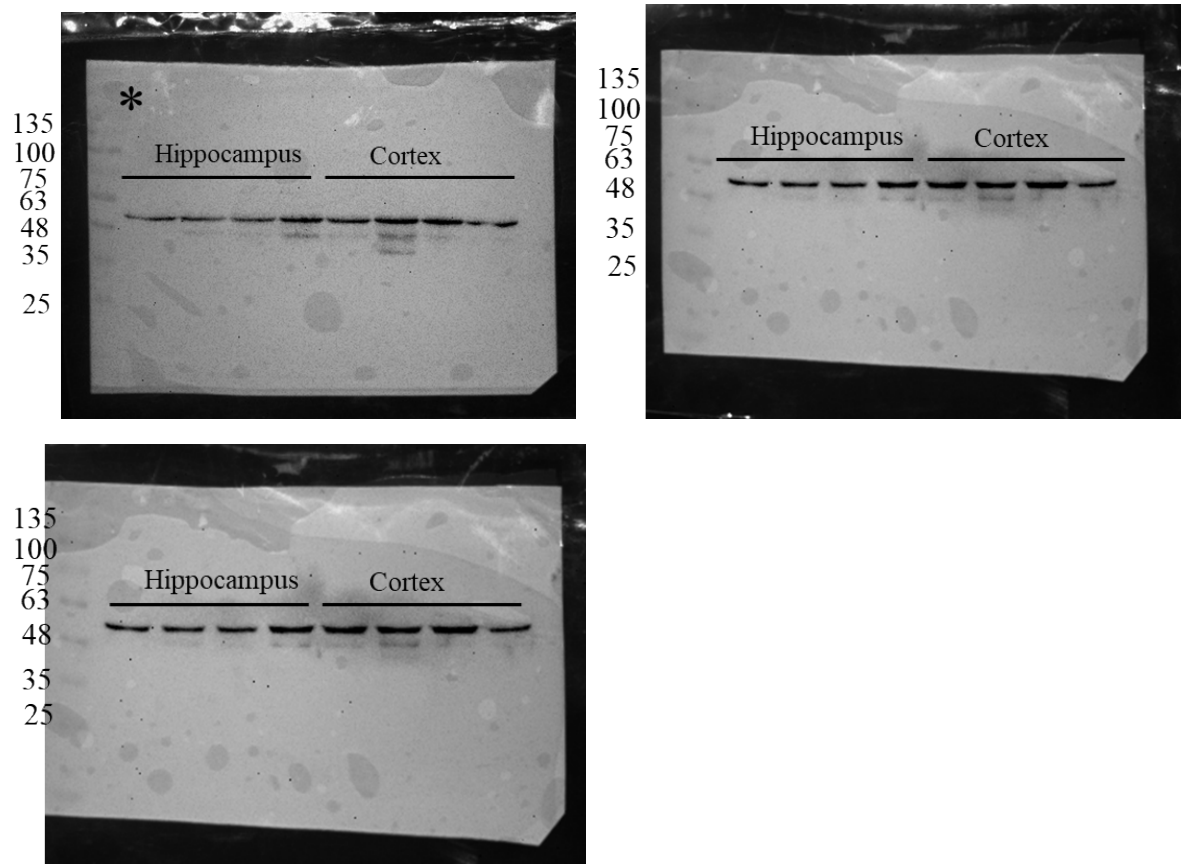

Fig. 5 Effect of oral treatment with quercetin on the expression of GFAP in hippocampus and cortex of $A\beta_{1-42}$-exposed mouse. GFAP: Glial fibrillary acidic protein.

Beta-actin

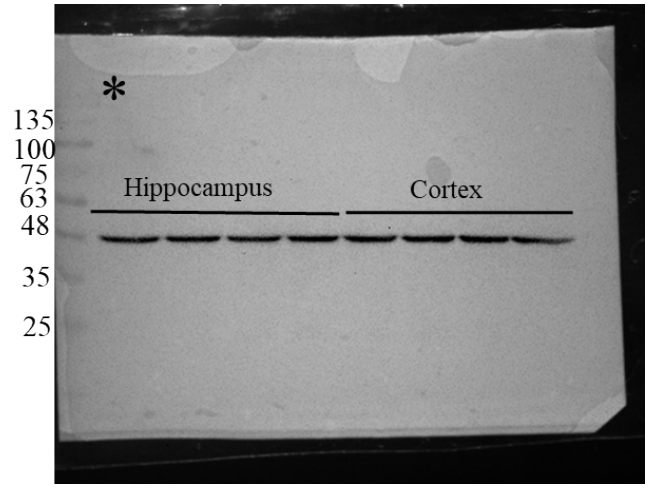

Fig. 6 Expression of beta actin protein in the blot of Fig 5 after stripping.

*** Representative blots used in manuscript.**

Amyloid precursor protein

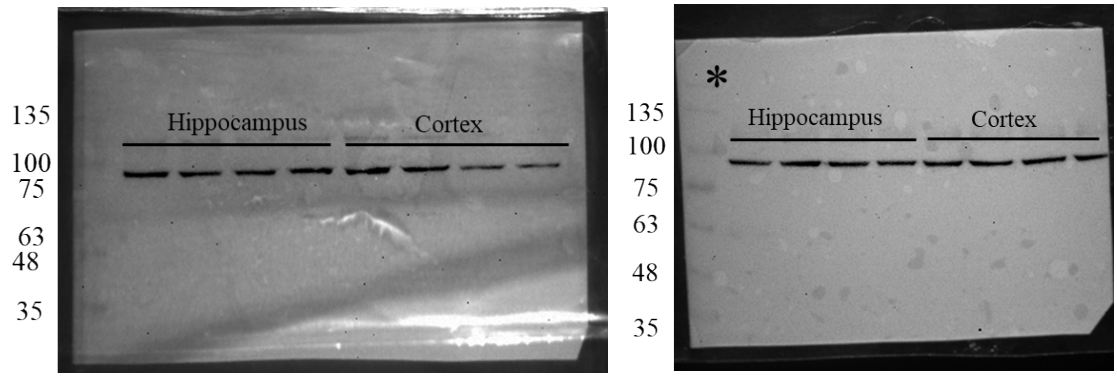

Fig. 7 Effect of oral treatment with quercetin on the expression of APP in hippocampus and cortex of $A\beta_{1-42}$-exposed mouse. APP: Amyloid precursor protein.

Beta-actin

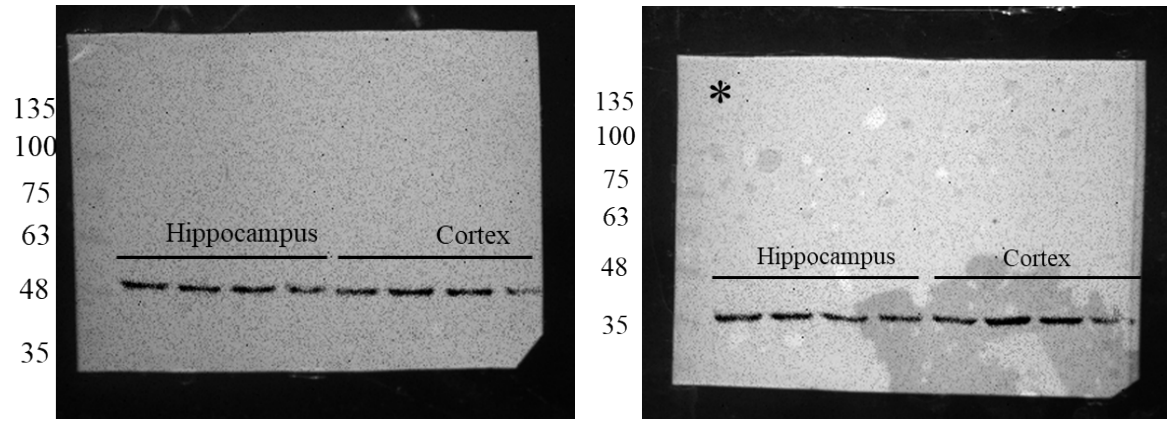

Fig. 8 Expression of beta actin protein in the blots of Fig 7 after stripping.

*** Representative blots used in manuscript.**