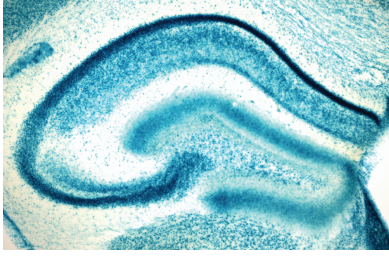


Supplementary Figure S1

a

Beclin LacZ-Reporter

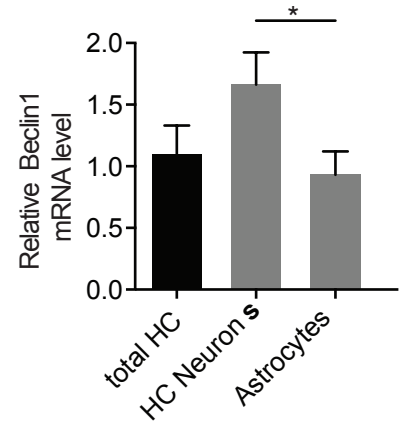


b

WT



c



Supplementary Figure S1: Beclin 1 expression in the mouse hippocampus.

a,b β -Galactosidase activity assay was performed on Beclin 1 reporter mice expressing LacZ under the endogenous Beclin 1 locus. Representative hippocampal image of β -Galactosidase labeling of LacZ reporter (**a**) and WT littermate controls (**b**). β -Galactosidase expression was detected in the pyramidal cell layer in the hippocampal CA1 region of reporter mice but not WT mice (scale bar: 200 μ m) **c** Quantitative RT-PCR analysis of Beclin 1 expression in RNA isolated from hippocampi of adult 2 months old mice, primary hippocampal neuron and astrocyte cultures (n = 5 hippocampi, n = 8 for primary cultures). Data expressed as mean + SEM; *p < 0.05; compared by one-way ANOVA with a Tukey's post test for multiple comparisons.