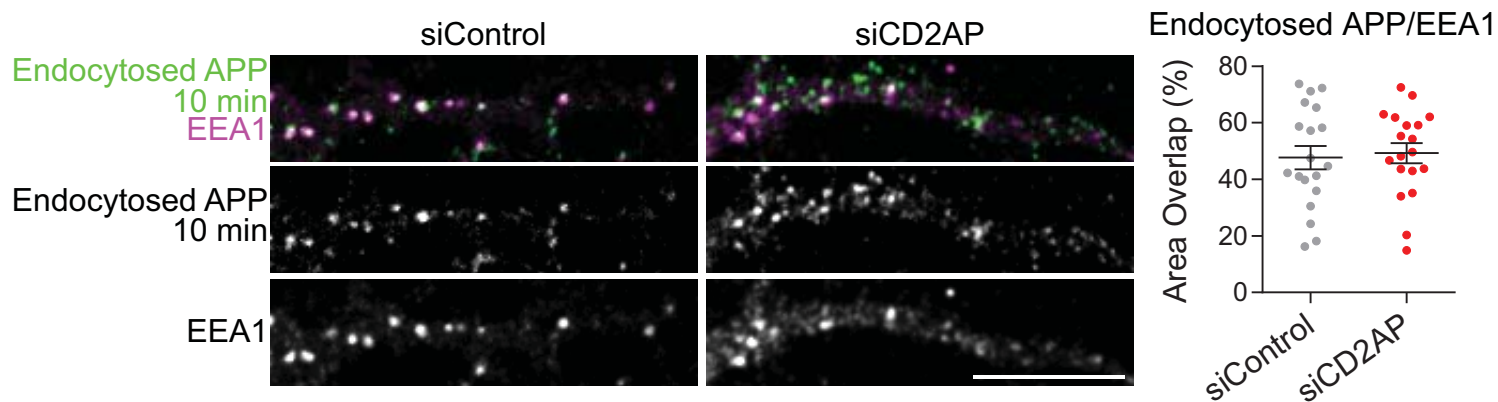
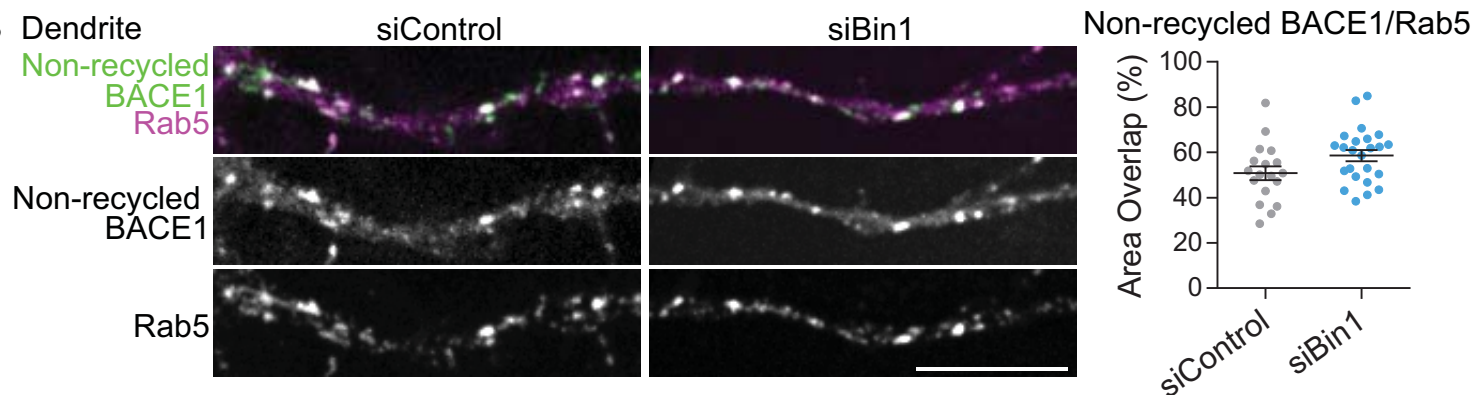


A Dendrite**B Dendrite**

Appendix Figure S1 Early endosomal localisation of endocytosed APP (10 min) and non-recycled BACE1 in neurons.

(A) Endocytosed APP (green) detected with 22C11 (10 min pulse) in EEA1-positive early endosomes (magenta) in dendrites of siCD2AP- and siControl-treated neurons expressing APP-RFP, analysed by spinning-disk confocal microscopy. Scale bar, 10 μ m. Quantification of colocalisation between endocytosed APP and EEA1 in dendrites is shown below ($n=3$, $N_{\text{siControl}}=19$, $N_{\text{siCD2AP}}=20$, mean \pm SEM).

(B) Non-recycled BACE1 (green) detected with M1 (15 min pulse, acid stripping and 20 min chase) in Rab5-positive early endosomes (magenta) in dendrites of siBin1- and siControl-treated neurons expressing Rab5-mCherry and BACE1-GFP analysed by spinning-disk confocal microscopy. Scale bar, 10 μ m. Quantification of colocalisation between non-recycled BACE1 and Rab5 in dendrites is shown below ($n=3$, $N_{\text{siControl}}=18$, $N_{\text{siBin1}}=24$; mean \pm SEM).