

Supplementary Information to:

**A reporter of local dendritic translocation shows plaque related loss of
neural function in APP transgenic mice**

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Figure legend

Supplementary Figure 1.

BDNF has no effect on protein synthesis of the Venus reporter missing the 3'UTR.

(a-d) Shown are untreated and BDNF treated cultured neurons expressing the short version of the Venus reporter lacking the 3'UTR. The fluorescence signal in the untreated control cell and the BDNF treated neuron remain unchanged over the time course of 75 minutes. (e,f) Summary histogram indicating that the intensity measurement of untreated and BDNF treated cell bodies and neurites respectively at different time points did not differ. (g) A schematic representation of the construct used in this experiment.

Scale bar, 15 μm .

Supplementary Figure 1

