



Supplemental Fig. 2 Model of amyloid-β regulation of glutamate receptor trafficking. (a) Amyloid-β activates the α -7 nicotinic receptor and promotes calcium influx. Calcium can then activate the serine/threonine phosphatase PP2B which dephosphorylates and activates STEP. When STEP is activated, it can regulate phosphorylation of postsynaptic tyrosine residues, such as tyrosine 1472 on NR2B. (b) We hypothesize that de-phosphorylation of NR2B reduces its anchoring to cytoskeletal proteins, including PSD-95. NR2B can then interact with the clathrin adaptor protein,AP-2. (c) Following interaction with AP-2, the NMDA receptor is endocytosed.