Supplementary Information

P2X-mediated AMPA receptor internalization and synaptic depression is controlled by two CaMKII phosphorylation sites on GluA1 in hippocampal neurons

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Supplementary Figure 1

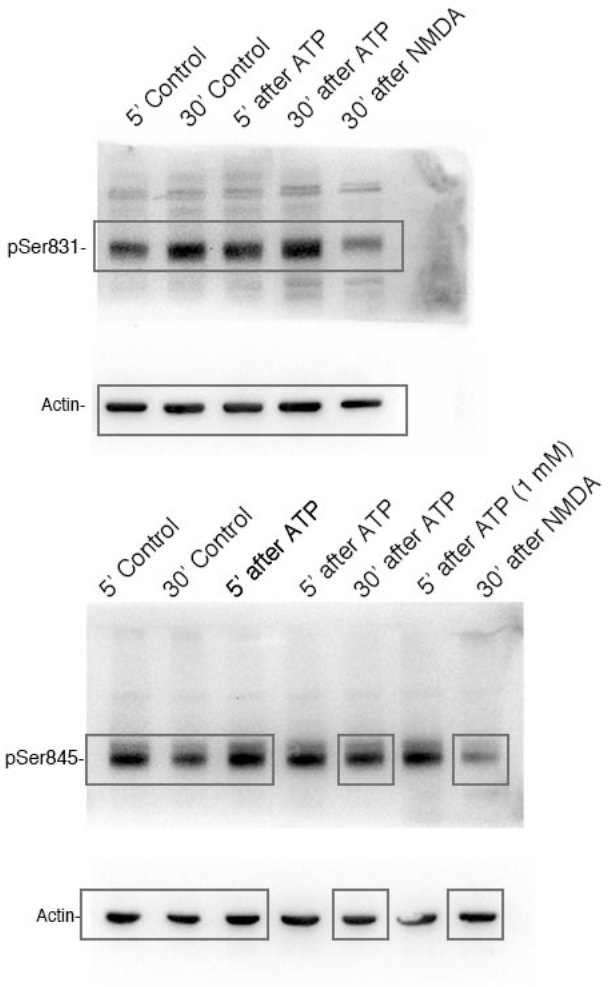


Fig. 6B

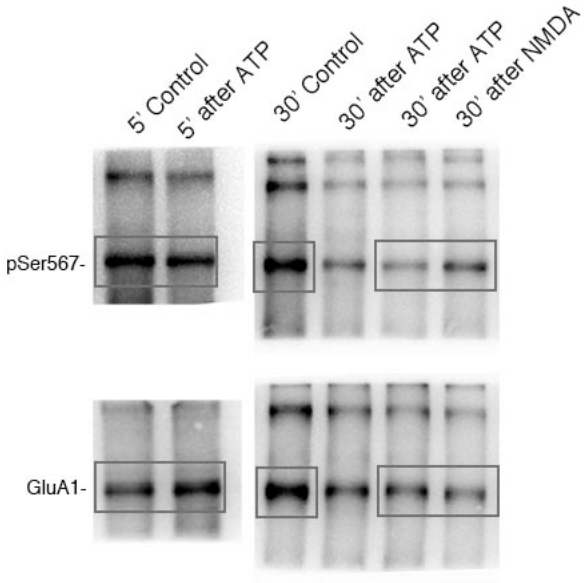
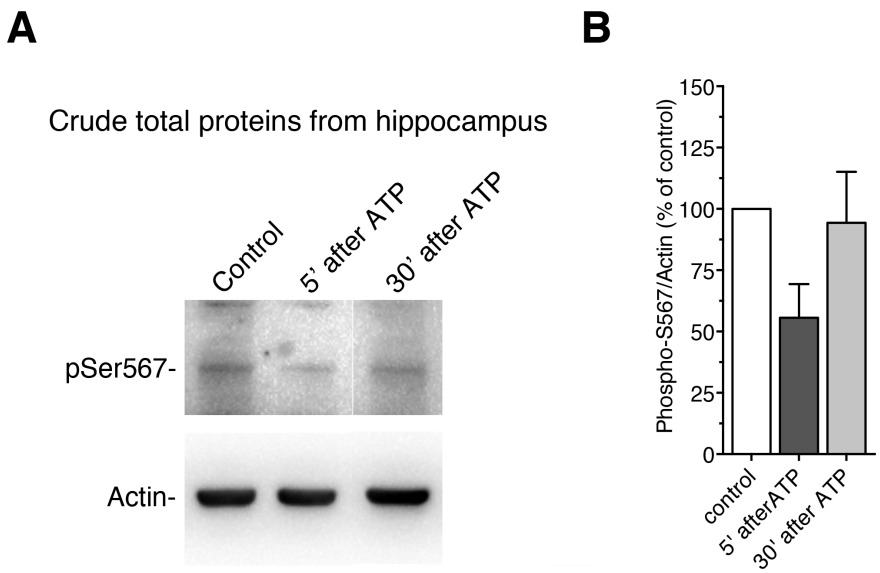


Fig. 6C

Supplementary figure 1. Full length version of western blots showed in Fig.6B and C. Lane of blots used to create Fig 6B and 6C panels are framed.

Supplementary Figure 2



Supplementary Figure 2. (A) Western blot using anti-phospho-S567 and actin **from** crude membrane fractions from control hippocampal slices and ATP-induced synaptic depression slices taken at indicated times 5' or 30' after the application of ATP (300 µM for 10 min). In these conditions, the detection of Phospho-S567 revealed no (5 experiments) or at most a faint band (n=2 independent experiments) arising from total proteins difficult to accurately quantify. We thus conducted immunoprecipitation using anti-GluA1 antibodies prior p-S567 detection (see Fig. 6C). (**B)** Quantification of the relative amounts of phosphorylation of GluA1-S567 detected from crude membranes (n=2) showed a transient dephosphorylation of the S567 site of the AMPAR after P2X activation from hippocampal slices, in agreement with results obtained after immunoprecipitation (Fig. 6C).