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<th><strong>Title</strong></th>
<th>A role for sorting nexin 27 in AMPA receptor trafficking (Figures)</th>
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<tr>
<td><strong>Author(s)</strong></td>
<td>Loo, Li Shen; Tang, Ning; Al-Haddawi, Muthafar; Stewart Dawe, Gavin; Hong, Wanjin</td>
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<tr>
<td><strong>Date</strong></td>
<td>2014</td>
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<td><strong>URL</strong></td>
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Figure 1

a

* LV

b

LV

c

CA1-/-

CA1+/+

d

DG-/-

DG+/+
Figure 2

(a) GFP-SNX27 | mCh-PSD95 | Merge
Inset

(b) SNX27 | synaptophysin | merge
GFPSNX27  mCherryPSD95  merge

ΔPDZ

ΔPX

ΔRA
Figure 4
Figure 5

(a) Time-lapse images showing the dynamic changes in SNX27 localization over time (0:00, 5:00, 10:00 min).

(b) Graph depicting the time course of GFP/mCh signal changes in response to Gly and Gly/APV treatments.

(c) Confocal images comparing WT and SNX27−/− mice under different conditions (Saturation, Basal, Gly, Gly/APV).

(d) Bar graph illustrating the intracellular A1x-Tf levels in WT and SNX27−/− mice across Basal, Gly, and Gly/APV conditions.
Figure 6

(a) Synaptosome fraction

(b) TX-insoluble (PSD) fraction

Bar graph showing relative GluN1 levels in synaptosomes and PSD fraction.

** Indicates statistical significance.

GluN1, SNAP23, PSD95, SNX27
Figure 7
Figure 8

**Figure 8**

(a) Western blot analysis showing the interaction between Myc-SNX27 and GluA1, GluA2, SAP97, PSD95, and SNX27. The blotting shows the presence of these proteins in various conditions.

(b) Western blot analysis for GluA2 showing the interaction with Myc-SNX27 and endogenous GluA1.

(c) Summary table for the interaction studies with Myc-SNX27, Myc-SNX27∆PDZ, and GFP GluA1 C-tail in different conditions.

(d) Time course Western blot analysis for GluA1 and K-ras showing the normalized intensity ratio over time after glycine treatment.

(e) Western blot analysis for GluA1, GluA2, and SNX27 in different conditions with the presence of specific inhibitors.
Figure 9
Figure 10