

Figure S3. Sources of Ca²⁺ influx in wildtype and R/- cells.

NMDA-induced somatic Ca²⁺ responses in presence of blockers, normalized to the NMDA-only response taken as 100% (in nM: 437±305 for +/+, n=63, and 362±267 for R/-, n=44). For concentrations of agonists and blockers please refer to method and suppl. method sections. All values represent mean±SEM. n_{cells}/n_{experiments} from left to right: 29/5, 21/4, 4/2, 7/2, 7/2, 5/2, 21/3, 12/3, 20/4, 9/3, 5/2, 7/2, 6/3, 7/3, 6/3, 4/2, 6/3, 7/3. Mann-Whitney U-test for significance: (*) p<0.05, (**) p<0.01.

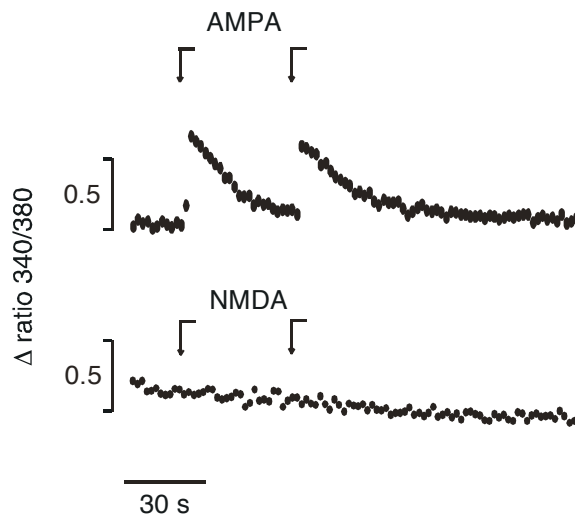


Figure S4. Ca²⁺ influx in NR1 knock-out cells.

AMPA (100 μM, 10 s) can induce somatic Ca²⁺ responses on a NR1 knock-out cell, while NMDA (50 μM, 10 s) does not change ratio_{340/380} on the same cell.