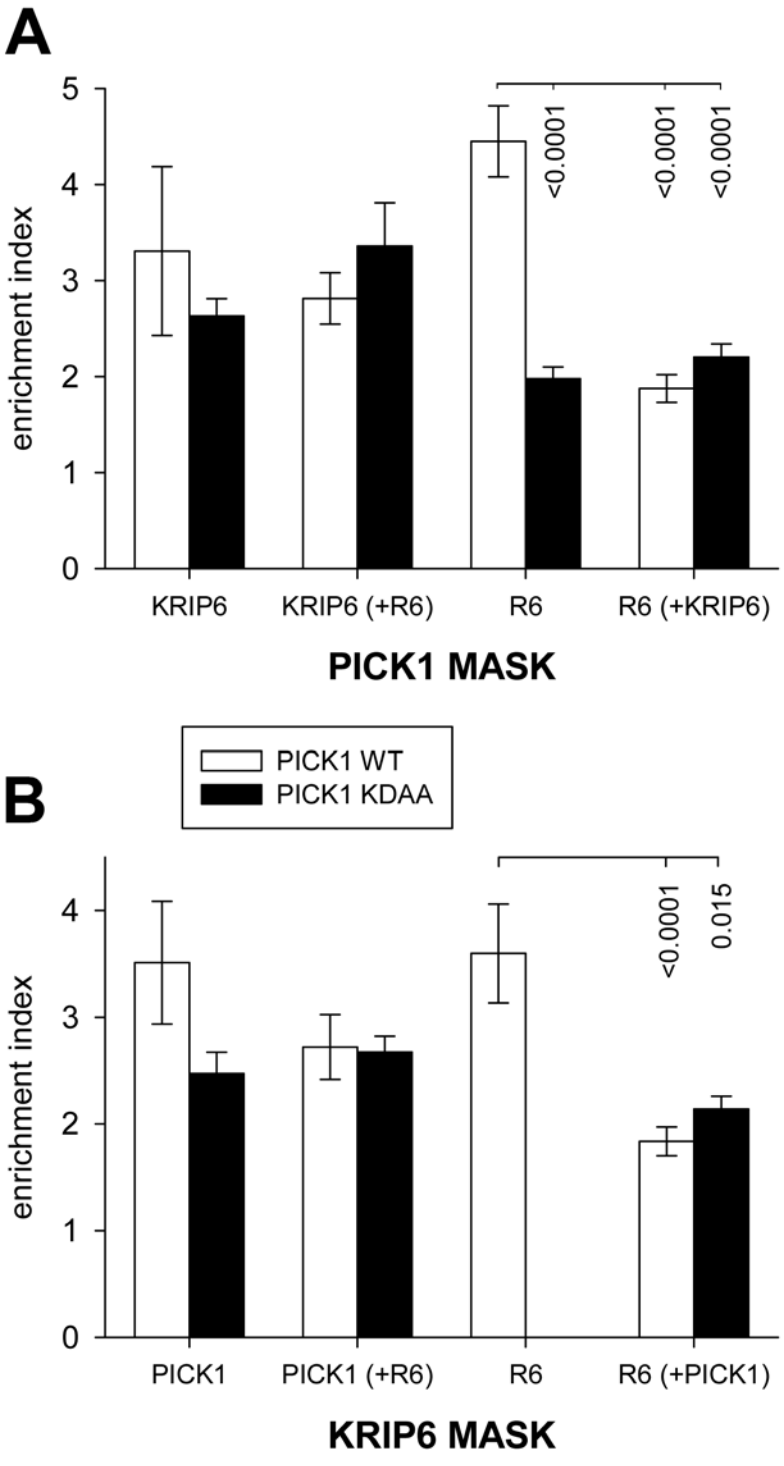
A
enrichment index
5
4
3
2
1
0
<0.0001
<0.0001
<0.0001
KRIP6
KRIP6 (+R6)
R6
R6 (+KRIP6)
PICK1 MASK
PICK1 WT
PICK1 KDAA
B
enrichment index
4
3
2
1
0
<0.0001
0.015
PICK1
PICK1 (+R6)
R6
R6 (+PICK1)
KRIP6 MASK

Fig. S1. Mutation of the PICK1 PDZ domain reduces co-clustering with GluR6 but not with KRIP6. (A, B) Bar graphs plot the enrichment index of KRIP6 and/or GluR6 co-expressed with wild type PICK1 (open bars, re-plotted from Fig. 3) or with the PICK1 KDAA double mutant (solid bars) calculated through a PICK1 MASK (A) or a KRIP6 mask (B). There was no significant difference between wild type PICK1 and PICK1 KDAA in the pair-wise enrichment index with KRIP6 (A), either alone (p = 0.49; n = 9 WT and 4 PICK1 KDAA, Mann–Whitney rank sum test) or together with GluR6 (p = 0.17; n = 28 WT and 12 PICK1 KDAA, Mann–Whitney rank sum test). Pair-wise enrichment of GluR6 with PICK1 KDAA was significantly lower than for wild type PICK1 (4.45 ± 0.37, n = 17 versus 1.98 ± 0.12, n = 9; $p < 0.0001$, Mann–Whitney rank sum test), but was not further reduced by triple co-expression with KRIP6 (1.88 ± 0.14, n = 28 versus 2.20 0.14, n = 12; p = 0.20, Mann–Whitney rank sum test). Enrichment of GluR6 with KRIP6 was significantly lower with triple co-expression of either wild type (1.84 ± 0.14, n = 28; $p < 0.0001$, Mann–Whitney rank sum test) or mutant (2.14 ± 0.12, n = 12; p = 0.015, Mann–Whitney rank sum test) PICK1 as compared to pair-wise expression of KRIP6 and GluR6 alone (3.60 ± 0.46, n = 12, Mann–Whitney rank sum test).