

Supplementary Table I. Quantification of TfR-GFP fluorescence in neurons over expressing PKD1-WT or KD.

Groups	Golgi region	Inner Dendrite	Middle Dendrite	Distal Dendrites
PKD1-WT (4 h)	1680±24	84±22	20±2	ND
PKD1-WT (6 h)	1822±86	260±62	83±7	34±4
PKD1-WT (8 h)	2780±115	740±38	287±13	112±28
PKD1-KD (4 h)	1679±81	121±37	29±17	ND
PKD1-KD (6 h)	1994±42	482±84	89±11	38±6
PKD1-KD (8 h)	2767±38	856±44	275±25	134±14

Values represent the average fluorescent intensity expressed in pixels within a 5-10 μm^2 area located in the central region of the Golgi apparatus or the inner, middle, and distal segment of the largest and thicker dendrite of each of the neurons analyzed. 12-Bits images were used for this quantification. Scale: 0 (black)-4095 (white). Values observed in control non-transfected or mock-transfected cells were similar to those shown here for PKD1 transfected neurons.

Each value is the mean±S.E.M. 30 transfected cells were analyzed for each time point and experimental condition.

For this experiment cultured hippocampal pyramidal neurons (8-10 d.i.v.) were transfected with TfR-GFP + PKD1-WT or -KD, and fixed at different time intervals (4, 6 and 8 hours) post-transfection. 2 μg of each cDNA were used for this experiment.

ND: Not Determined.