Additional File 9. Histograms of distance of label for CaMKII, pan Shank, and Shank 2 from the postsynaptic membrane.

- CaMKII
  - Median = 48.3
  - n = 284

- Pan Shank
  - Median = 56.7
  - n = 304

- Shank 2
  - Median = 50
  - n = 345

Data were from experiment 2 in Additional File 10. In this experiment, while the laminar distribution of CaMKII (top panel) and Shank 2 (bottom panel) were similar, the median distance of label for pan Shank (middle panel) was larger than those for CaMKII and Shank 2. Since the pan Shank antibody recognized all 3 members of the Shank family (Shank 1, 2 and 3), this difference in laminar distribution between label for pan Shank and Shank 2 could be accounted for by differences in distribution attributed to Shank 1 and Shank 3 [12, 13]. These histograms clearly illustrated that upon high K+ treatment, the bulk (70-80%) of PSD-associated labels for CaMKII and Shank were located in the PSD pallium.