

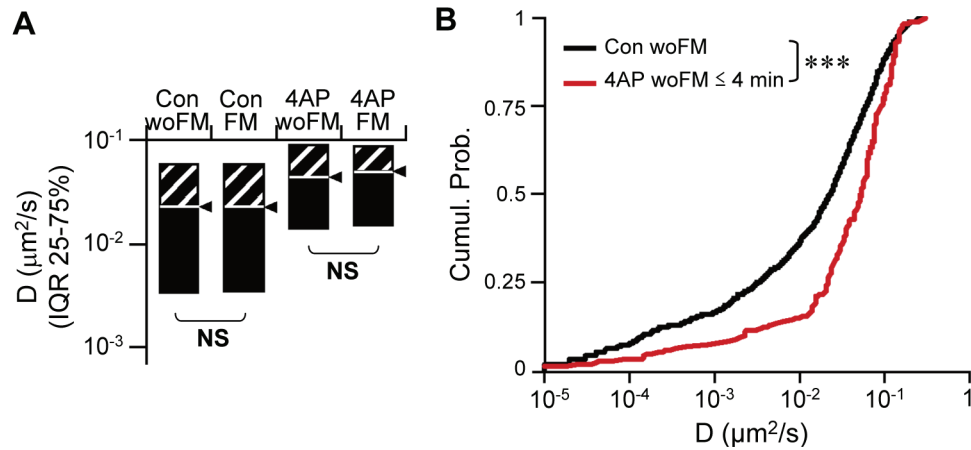


Figure S3. Lateral diffusion of GABA_AR with or without FM4-64 labeling.

A: Diffusion coefficients of GABA_AR-QDs (median $\pm$ IQR) in the absence (Con) and presence (4AP) of 4AP treatment with (FM) or without (woFM) FM4-64 labeling. NS: $p > 0.05$, Mann–Whitney U test. The number of GABA_AR-QDs analyzed: 1364 QDs for Con woFM; 1183 for Con FM; 1172 for 4AP woFM; 1133 for 4AP FM, from 3 cultures. Note that FM4-64 labeling did not significantly alter the diffusion coefficient. **B:** Cumulative plot of diffusion coefficient for GABA_AR-QDs on neurons treated with 4AP for less than or equal to 4 min (4AP woFM $\leq$ 4 min, red) and control neurons (Con woFM, black) without FM staining. The diffusion of GABA_AR-QDs increased within 4 min of 4AP stimulation even in the absence of FM labeling. The number of GABA_AR-QDs analyzed: 1364 QDs for Con woFM, 123 for 4AP woFM $\leq$ 4 min (3 cultures).