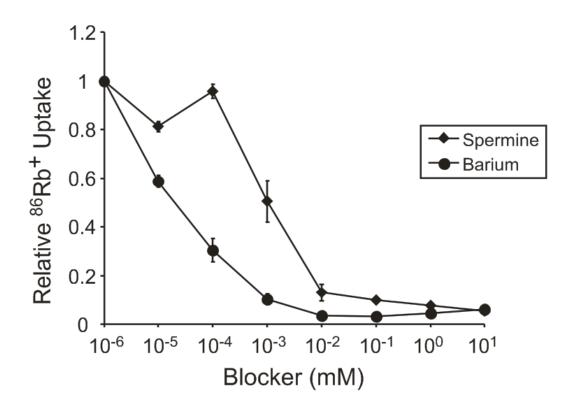
Supporting Material

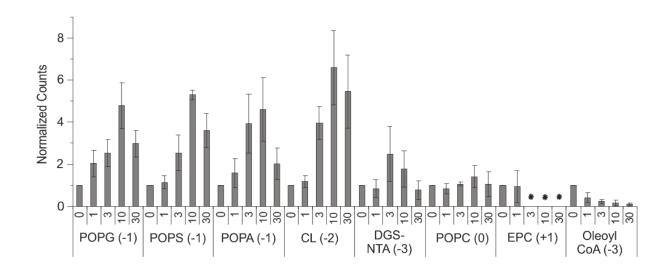
Dual-Mode Phospholipid Regulation of Human Inward Rectifying Potassium Channels

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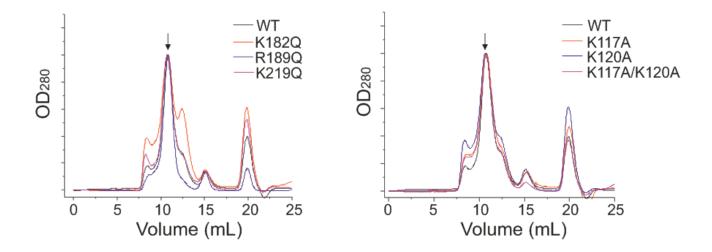
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SUPPLEMENTARY FIG. 1 86 Rb⁺ uptake counts of Kir2.1 with addition of extra-liposomal Ba²⁺ or spermine. Valinomycin-normalized counts are plotted relative to counts with 10^{-6} mM of blocker (n=3, +/- s.e.m.).



SUPPLEMENTARY FIGURE 2 ⁸⁶Rb⁺ uptake counts of Kir2.2 showing anionic phospholipid dependence on a 1% PIP₂ background as in Fig. 2A. Counts are taken at 20 min (n=3, +/- s.e.m.).



SUPPLEMENTARY FIGURE 3 Gel Filtration profiles of WT and mutant Kir2.1 channels. Gel filtration profiles of Kir2.1 and all mutants tested were similar with the protein peak eluting at the same volume for all the mutants. Three 0.5 mL fractions were collected from 10-11.5 mL and concentrated for functional experiments.