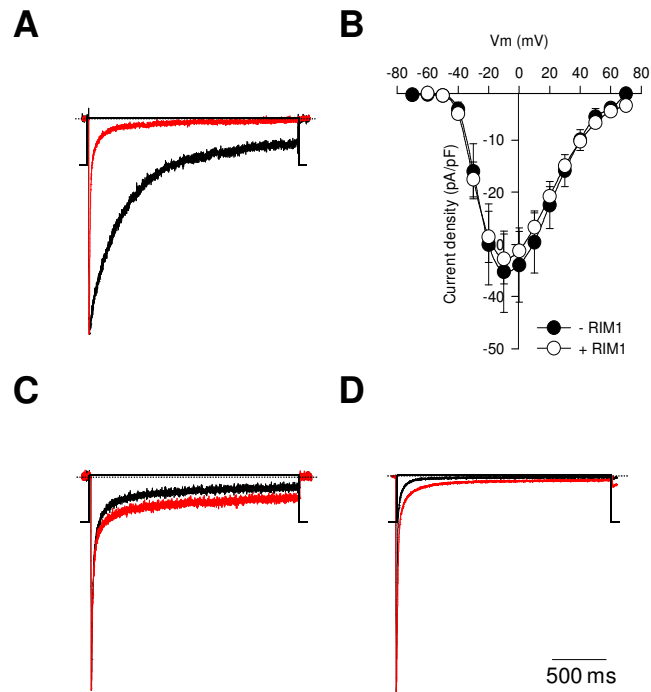


Supplemental Figure 1



Supplemental Figure 1. A) Superimposed whole cell current traces evoked by 2-s depolarizing voltage steps from -80 to -30 mV in HEK-293 cells expressing Ca_v1.3α1/Ca_vα₂δ-1/Ca_vβ₃ channels, using Ba²⁺ (black) or Ca²⁺ (red) as the charge carrier. B) Average current density-voltage relationships for *I*_{Ca} recorded from HEK-293 cells expressing Ca_v1.3α1/Ca_vα₂δ-1/Ca_vβ₃ channels in absence and presence of RIM1 as indicated. C, D) Representative *I*_{Ca} traces recorded by 2-s depolarizing voltage steps from -80 to -30 and -20 mV in HEK-293 cells expressing recombinant channels formed of Ca_v1.3α1/Ca_vα₂δ-1 together with Ca_vβ₂ or Ca_vβ₃ subunits, respectively, in absence (black traces) and presence (red traces), of RIM1. Peak amplitude of the currents before and after RIM1 co-expression was normalized for comparison.