

Supplementary Figure 1 Specificity of different anti-Kv4.2 antibodies. Immunofluorescence labeling in primary visual cortex of wild type mice (Kv4.2^{+/+}) and mice in which Kv4.2 was eliminated by targeted gene deletion (Kv4.2^{-/-}), stained with mouse-anti-Kv4.2 (NeuroMab) and goat-anti-Kv4.2 (Santa Cruz). Notice that in Kv4.2^{-/-} mice the NeuroMab antibody produces no detectable staining. In contrast, in Kv4.2^{-/-} mice the Santa Cruz antibody stains numerous cell bodies. Scale: 100 μ m.

Supplementary Figure 2 Specificity of different anti-Kv4.3 antibodies. Immunofluorescence labeling of somata (arrow) and dendrites in superficial layers of primary visual cortex of wild type mice (Kv4.3^{+/+}) and mice in which Kv4.3 was eliminated by targeted gene deletion (Kv4.3^{-/-}), stained with mouse-anti-Kv4.3 (NeuroMab) and goat-anti-Kv4.3 Santa Cruz). Notice that in Kv4.3^{-/-} mice the NeuroMab antibody produces no detectable staining. In contrast, in Kv4.3^{-/-} mice the Santa Cruz antibody produces punctate staining of somata (arrows) and dendrites. Scale: 50 μ m.