Supplementary Figure 1

The α3 and α4 do not compensate for the loss of postsynaptic α2-GABAA R in CA1, whereas the α5 subunit immunoreactivity increases. A-A’) Unchanged distribution of α3 subunit immunoreactivity (green) in relation to VGAT⁺ presynaptic terminals (red) and gephyrin clusters (blue); the arrow points to a strongly immunoreactive interneuron. B-B’) In both genotypes, α4 subunit staining appeared grainy and non-clustered in relation to VGAT or to gephyrin staining. No difference in staining intensity was apparent between WT and α2-KO mice. C-C’) A moderate increase in grainy, non-clustered α5 subunit staining was evident in α2-KO mice, in a minor part close to VGAT⁺ terminals. Boxed areas are enlarged below the main panels. Note the formation of gephyrin aggregates in cells from mutant mice (arrowheads). Scale bar, 20 μm.