Supplementary Fig. 2 to Wolfart et al. Nat. Neurosci. (2005)

1. Comparison of pre-response potentials and conductances preceding burst and single spike during noise recordings at resting potential. (a) Spike averages (STA) of 857 single spike (black traces) and 134 background-activated membranes (Vm; left panel), inhibitory (gi; middle panel) and excitatory conductances (ge; right panel). 50-150 ms before burst responses gi was hyperpolarized and gi increased compared to single spike responses, while ge was similar. Several ms before and during the response gi was strongly decreased and ge increased in comparison to single spike responses. (b) Quantification and error of observations as in (a). Averages of STAs were extracted for 5-6 time periods (0 to -10 ms, -40 to -50 ms, -90 to -100 ms, -150 ms, -190 to -200 ms and 0 to +10 ms for ge and indicate the range across which a difference was detected. Bars represent via ANOVA single spike noise: i) spikes, ii) responses in the presence of noise.