Suppl. Fig. 1. Subthreshold response variability of thalamocortical cells at hyperpolarized potential (Hyp) and 5 Hz random strength stimulation. (a) Two responses to identical 20 nS inputs were selected (asterisks), one preceded by a weak input (left panel), and one preceded by a strong input (right panel). Low-threshold calcitonin gene-related peptide spikes were only visible when the previous input was weak. (b) Subthreshold response (quantified by integration) to identical inputs during the quiescent mode at resting (Rest) and hyperpolarized potentials (Hyp) in relation to preceding input strength (y-axis). Insets show overlay of the 49 subthreshold responses to 20 nS inputs at resting potential (left panel) and hyperpolarization (right panel). A notch filter was applied to traces in b and c. While at resting potential only little response variations occurred, during hyperpolarization the same input triggered very different responses (compare scatter along x-axis) depending on the preceding response. (c) Same protocol as in b under noise condition. Insets show overlay of 28 subthreshold responses to 20 nS inputs at resting (left panel) and hyperpolarized potentials (right panel). With noise, response variability was generally high and not different between the Rest and Hyp conditions.