Supplementary Material

Cell type-specific distribution of T-type calcium currents in lamina II neurons of the rat spinal cord

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**Figure S1.** Effect of HCN channel antagonist on the tail current. Representative current responses to hyperpolarization voltage steps in the absence **(control, A)** and presence of ZD7288 **(B)**. Lower panel shows the voltage-clamp protocol. Arrow marks the tail current.

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**Figure S2.** Responses of SG neurons to hyperpolarization voltage and current stimulation. **(A-B)** Representative traces of T-type current (A) and subthreshold rebound depolarization (B) from the same neuron. Lower panels show the voltage- or current-clamp protocols. **(C-D)** Representative traces of T-type current (C) and spontaneous Na+-dependent spikes (D) from the same neuron.



**Figure S3.** Pearson correlations comparing T-type current density and morphological parameters. **(A)** Representative diagram showing the parameters measured. **(B)** Pearson correlation scatter plot of T-type calcium current density and soma diameter. **(C-D)** Pearson correlation scatter plot of T-type calcium current density and dendritic length elongated at the rostrocaudal or dorsoventral direction.