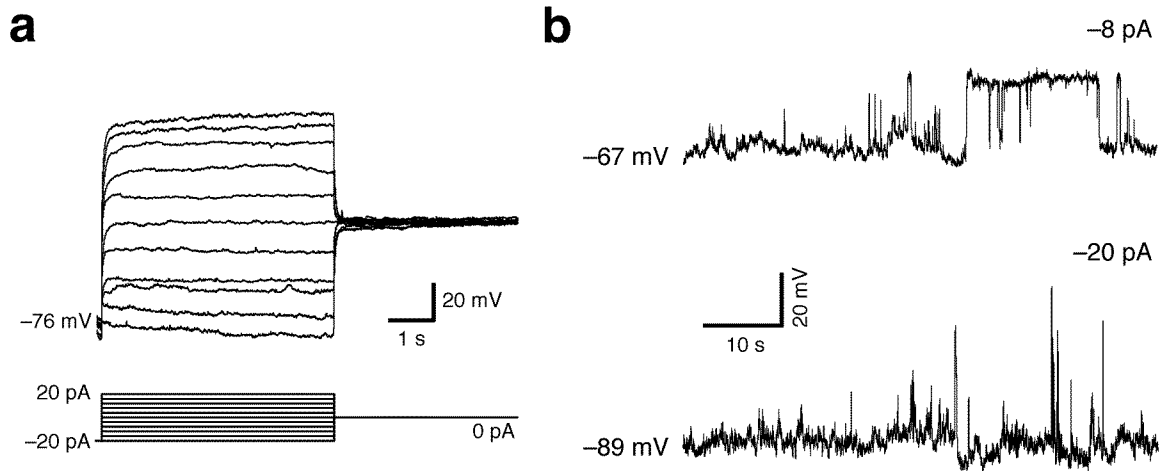
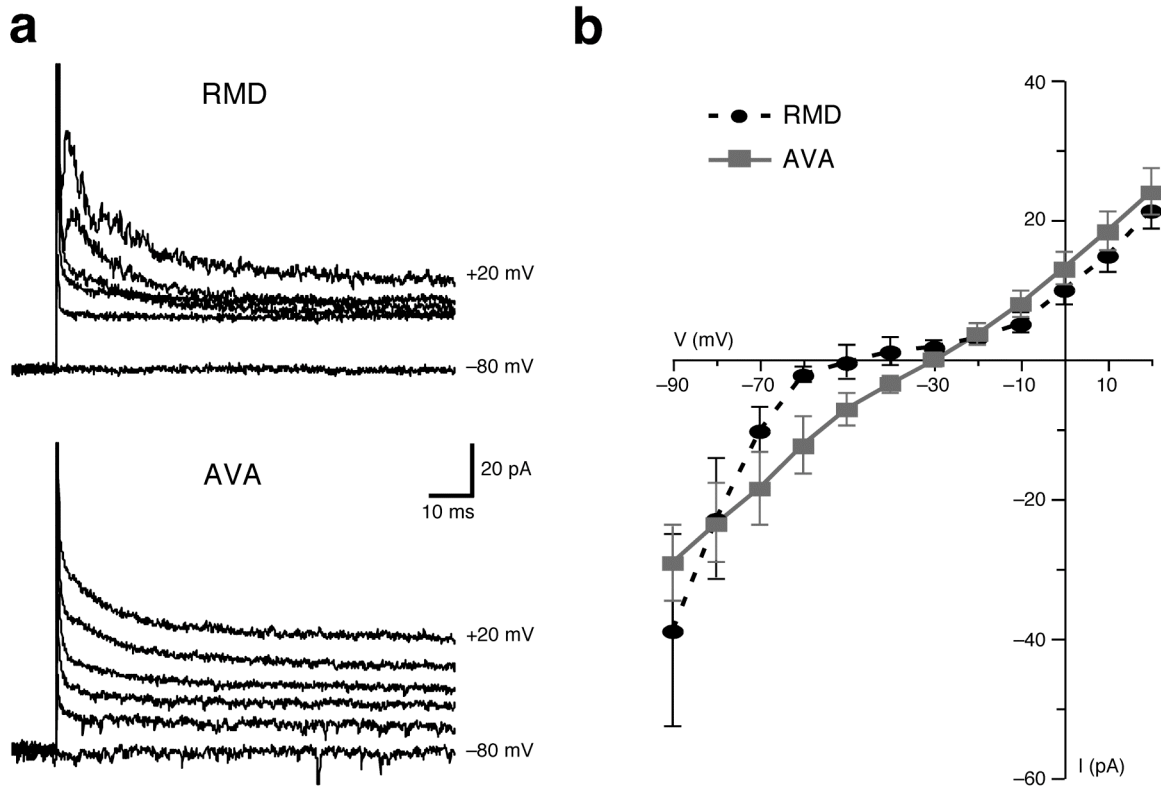


Action Potentials Contribute to Neuronal Signaling in *C. elegans*

Jerry E. Mellem, Penelope J. Brockie, David M. Madsen and Andres V. Maricq*



Supplementary Figure 1. Voltage responses in AVA. **(a)** AVA was current-clamped at -20 pA. Voltage responses to depolarizing current-steps. **(b)** Spontaneous fluctuations in voltage when current-clamped -8 pA or -20 pA.



Supplementary Figure 2. Voltage steps generate long-lived inward currents in the RMD neuron. **(a)** Voltage-clamp records from the neurons RMD and AVA. Current responses to voltage steps from -80 mV to $+20$ mV. **(b)** Steady-state current-voltage relations measured in RMD ($n=6$) and AVA ($n=4$) following decay of the transient currents. Error bars indicate s.e.m.