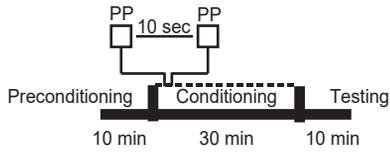


Supplementary Information

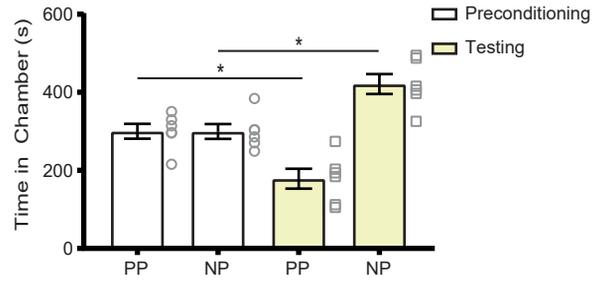
Title: Ketamine Reduces Aversion in Rodent Pain Models by Suppressing Hyperactivity of the Anterior Cingulate Cortex

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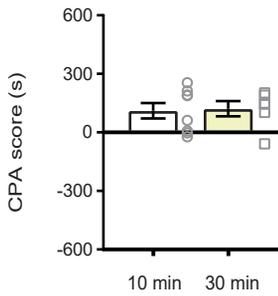
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b.

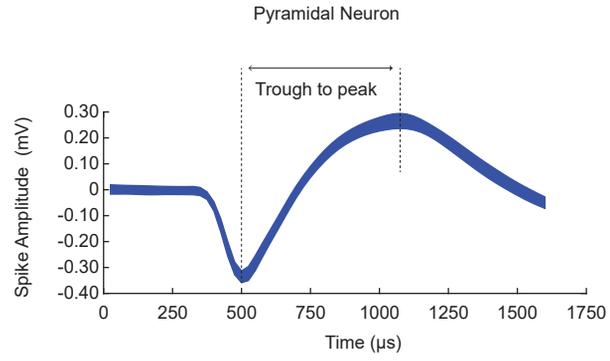
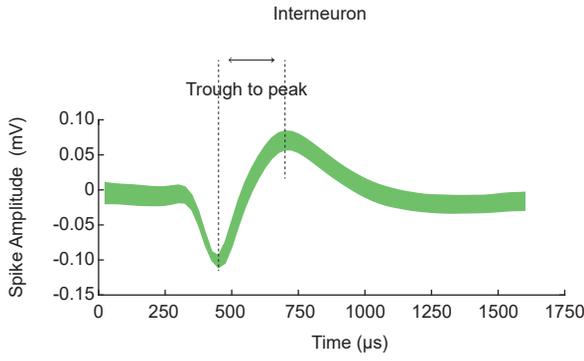


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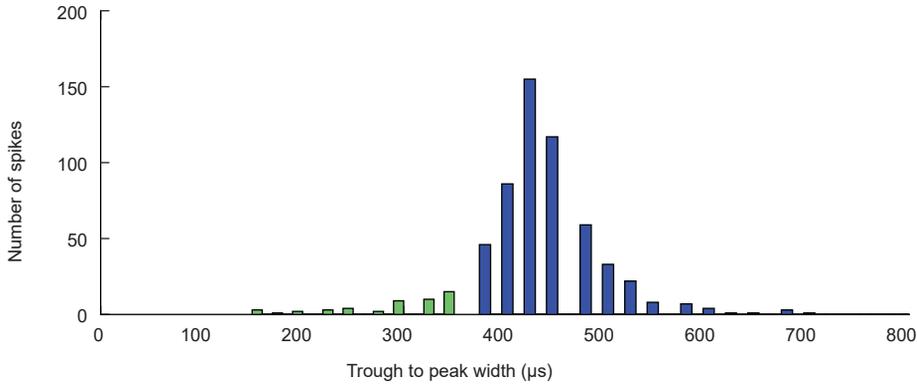


Supplementary Fig. 1. An extended duration of the conditioning phase did not alter the aversive response to acute pain. **a** Protocol of a 30-min conditioning phase for the CPA assay. **b** After 30 minutes of conditioning, naïve rats displayed avoidance to the chamber paired with a noxious stimulus (PP). $n=6$; $p=0.0261$, paired Student's t test. **c** The 30-min conditioning protocol did not alter the aversive response to acute noxious stimulations, compared with the 10-min conditioning protocol. $n=6-7$; $p=0.8577$, unpaired Student's t test. Error bars represent S.E.M.

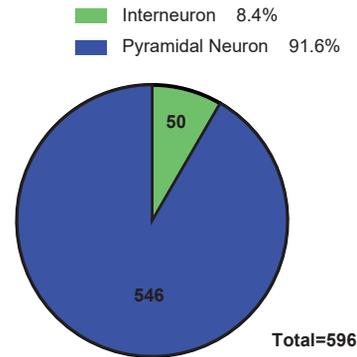
a.



b.



c.



Supplementary Fig. 2. Identification of recorded neurons in the ACC. **a** Example spike waveforms of an interneuron and a pyramidal neuron. **b** Histogram of spike trough to peak widths. Interneurons have shorter trough to peak widths (<360 μ s), while pyramidal neurons have longer widths. **c** Proportions of recorded interneurons and pyramidal neurons in the ACC.