

NEUROMICS



α_{2A} Adrenergic Receptor

Datasheet

Catalog Number: RA14110

Host: Rabbit

Product Type: Affinity purified antibody - Polyclonal

Species Reactivity: Rat, Mouse, Human

Immunogen Sequence: (C)KASRWGRGRQNREKR
Cysteine added for conjugation

Format: Liquid - Concentration of
1 mg/ml.

Applications: Immunohistochemistry 5 – 10ug/ml

Dilutions listed only as a recommendation. Optimal dilution should be determined by investigator.

Storage: Store frozen. Aliquot as undiluted serum and immediately place at -20°C. Serum may have become trapped in top of vial during shipping. Centrifugation of vial is recommended before opening. Stable for at least 6 months at -20°C. Repeated freeze/thaw cycles compromise the integrity of the antiserum.

References: [Sugahara, T.L. Yaksh, c. M. Marsal. Potent suppression of stretch reflex activity after systemic or spinal delivery of tizanidine in rats with spinal ischemia-induced chronic spastic paraplegia. doi:10.1016/j.neuroscience.2011.08.022.](#)

[Shao-Rui Chen, Hao-Min Pan, Timothy E. Richardson, and Hui-Lin Pan. Potentiation of Spinal \$\alpha_2\$ -Adrenoceptor Analgesia in Rats Deficient in TRPV1- Expressing Afferent Neurons. Published online 2007 March 24. doi: 10.1016/j.neuropharm.2007.03.009](#)

Application Notes

Immunohistochemistry:

Antiserum was used on perfusion fixed tissue. Perfusion: 1) calcium-free Tyrode's solution, 2) paraformaldehyde-picric acid fixative, and 3) 10% sucrose in PBS as a cryo-protectant. Desired tissues were dissected and stored overnight in 10% sucrose in PBS.

Slide-mounted tissue sections were processed for indirect immunofluorescence. Slides were incubated with blocking buffer for 1 hour at room temperature. Primary antiserum was diluted with blocking buffer to the appropriate working concentration. Blocking buffer was removed and slides were incubated for 18-24 hours at 4°C with primary antiserum. Slides were rinsed 3 times and then incubated with secondary antibodies for 1 hour at room temperature. Slides were again rinsed 3 times and coverslipped. Staining was examined using fluorescence microscopy.

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Image: Alpha 2 adrenergic receptor labeling in rat cryostat section of rat brain. Labeling is confined to synaptic boutons (red). Tissue nuclei were counterstained with DAPI (blue).

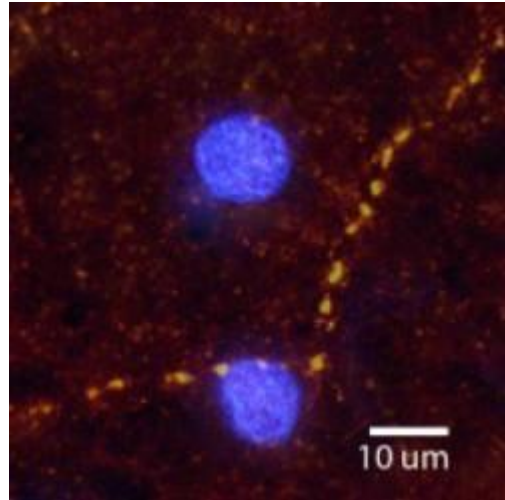
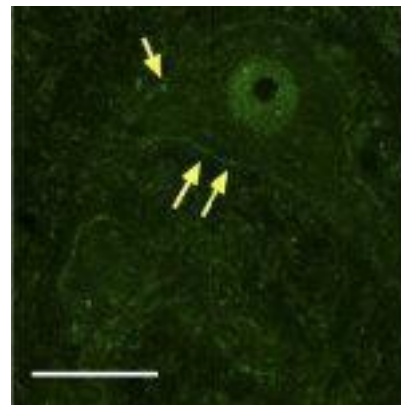


Image: Expression of alpha-2A-m receptor in lumbar spinal cord interneurons and alpha--motoneurons.



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