

NEUROMICS

proDynorphin



Data Sheet

Catalog Number:	GP10110	Host:	Guinea Pig
Product Type:	Affinity Purified	Species Reactivity:	Rat, Mouse
Immunogen Sequence:	SQENPNTYSEDLDV. Corresponding to residues 235-248 of the rat proDynorphin.	Format:	PBS liquid containing 0.05% sodium azide . Concentration 1 mg/ml
Applications:	Immunohistochemistry 1:250-1:1000* Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.		
Storage:	Maintain at +2-8°C for 3 months or at -20°C for longer periods. Stable for 1 year. <i>Avoid repeated freeze-thaw cycles.</i>		
References:	<p>B.A.S. Reyes, A.F. Carvalho, K. Vakharia. and E.J. Van Bockstaele. Amygdalar peptidergic circuits regulating noradrenergic locus coeruleus neurons: Linking limbic and arousal centers. doi:10.1016/j.expneurol.2011.04.001.</p> <p>Wulf Haubensak, Prabhat S. Kunwar, Haijiang Cai¹, Stephane Cioocchi, Nicholas R. Wall, Ravikumar Ponnusamy, Jonathan Biag, Hong-Wei Dong, Karl Deisseroth, Edward M. Callaway, Michael S. Fanselow, Andreas Lüthi & David J. Anderson. Genetic dissection of an amygdala microcircuit that gates conditioned fear. Nature 468, 270-276 (11 November 2010) doi:10.1038/nature09553.</p> <p>Melissa L. Perreault, Ahmed Hasbi, Mohammed Alijaniam, Theresa Fan, George Varghese, Paul J. Fletcher, Philip Seeman, Brian F. O'Dowd, and Susan R. George. The Dopamine D1-D2 Receptor Heteromer Localizes in Dynorphin/Enkephalin Neurons: INCREASED HIGH AFFINITY STATE FOLLOWING AMPHETAMINE AND IN SCHIZOPHRENIA. J. Biol. Chem., Nov 2010; 285: 36625 - 36634.</p> <p>Cristina Núñez, Fátima Martín, Anna Földes, M. Luisa Laorden, Krisztina J. Kovács, M. Victoria Milanés. Induction of FosB/ΔFosB in the brain stress system-related structures during morphine dependence and withdrawal. Journal of Neurochemistry. DOI: 10.1111/j.1471-4159.2010.06765.x</p> <p>N. Maolood and B. Meister. Nociceptin/Orphanin FQ Peptide in Hypothalamic Neurons Associated with the Control of Feeding Behaviour. Journal of Neuroendocrinology. Volume 22 Issue 2, Pages 75 - 82. Published Online: 15 Dec 2009.</p>		

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.

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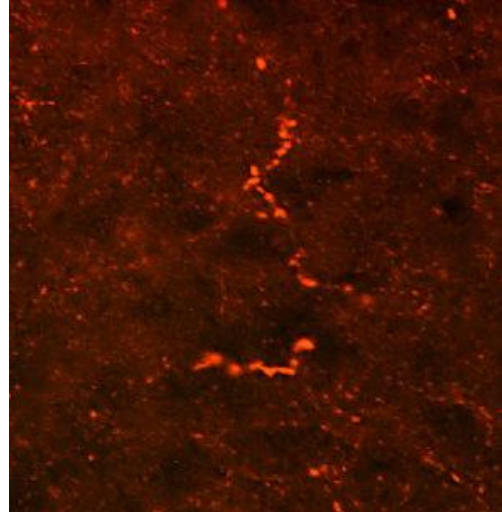
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Slide-mounted tissue sections were processed for indirect immunofluorescence. Slides were incubated with blocking buffer for 1 hour at room temperature. Primary antiserum was diluted with blocking buffer to the appropriate working concentration. Blocking 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.

Note: Sodium azide (NaN₃) interferes with peroxidase reactions and should not be used with peroxidase methodologies. If sodium azide is present in any steps of the staining procedure, the tissue should thoroughly be rinsed with sodium azide-free buffer before performing the peroxidase reaction.

Image: Immunofluorescent detection of Prodynorphin (seen as immunoreactive varicosities) in rat hypothalamus (red fluorescence).



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