



Catalog Number:	GT15057	Host:	Goat
Product Type:	Affinity Purified Goat IgG	Species Reactivity:	Mouse, Rat, Pif
Immunogen Sequence:	Recombinant mouse NGF Receptor/p75 extracellular domain.	Format:	Liquid 1mg/ml Solution in phosphate-buffered saline (PBS) with 5% Trehlose
Applications:	Immunohistochemistry: 2-15 µg/mL Western Blot: 0.1 – 0.2 µg/mL Tested for Western blotting using mouse recombinant p75/NGF Receptor ELISA: 0.5 - 1.0 µg/mL Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.		
Storage:	Antibody can be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. <i>Avoid repeated freeze-thaw cycles.</i>		
References:	Leah R. Reznikov, Qian Dong, Jeng-Haur Chena, Thomas O. Moninger, Jung Min Park, Yuzhou Zhang, Jianyang Du, Michael S. Hildebrand, Richard J. H. Smith, Christoph O. Randak, David A. Stoltz, and Michael J. Welsh. CFTR-deficient pigs display peripheral nervous system defects at birth. www.pnas.org/cgi/doi/10.1073/pnas.1222729110. Masamichi Shinoda, Masatake Asano, Daisuke Omagari, Kuniya Honda, Suzuro Hitomi, Ayano Katagiri, and Koichi Iwata. Nerve Growth Factor Contribution via Transient Receptor Potential Vanilloid 1 to Ectopic Orofacial Pain. The Journal of Neuroscience, 11 May 2011, 31(19):7145-7155; doi:10.1523/JNEUROSCI.0481-11.2011. Angela L.M. Scott and Matt S. Ramer. Differential regulation of dendritic plasticity by neurotrophins following deafferentation of the adult spinal cord is independent of p75^{NTR}. Brain Research. Volume 1323, 6 April 2010, Pages 48-58.		

Application Notes

Immunohistochemistry:

This antibody will detect mouse p75/NGF Receptor in cells and tissues. The working dilution is 2 - 15 µg/mL.
Sample Protocol: Sagittal sections of the trigeminal nerve were cut on a freezing microtome at a thickness of 8 µm and adhered to SuperFrost Plus Glass Slides (Fisher Scientific). Sections were then fixed using an ice-cold 2% (vol/vol) paraformaldehyde/PBS solution at 4 °C for 10 min. Sections were washed thoroughly with PBS and incubated at 37 °C for 2 h with goat anti-p75 (1:500; Neuromics). Sections were coverslipped using hard set mounting media (Vectashield) and imaged using an Olympus Fluoview FV1000 confocal microscope and UPLSAPO 60x oil lens.
<http://www.pnas.org/content/early/2013/01/30/1222729110.full.pdf>

Western Blot:

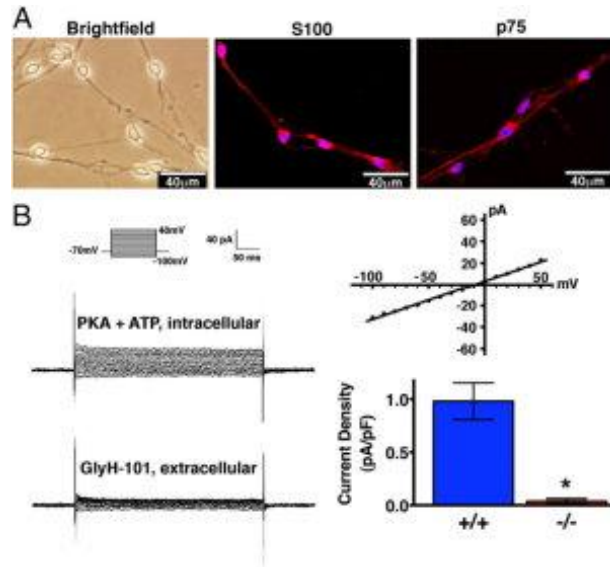
This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect mouse NGF R. The detection limit for recombinant mouse p75/NGF Receptor is approximately 5 ng/lane under non-reducing and reducing conditions.

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Images: CFTR is functionally active in Schwann cells. (A) Primary cultures of porcine Schwann cells were used 4 wk after seeding when they had developed the specific bipolar morphology and a phase-bright cell body under differential interference contrast microscopy. Schwann cells were positive for the phenotypic markers S100 and p75. (B) Whole-cell current recorded in the presence of PKA and ATP in the pipette solution and 1 min after adding 100 μ M of CFTR inhibitor GlyH-101 to the bath solution. (Left) Example of currents from one cell; Inset shows voltage-pulse protocol. (Upper Right) Example of current-voltage relationship. (Lower Right) Data from five CFTR^{+/+} Schwann cells and seven CFTR^{-/-} Schwann cells. **P* = 0.003 (Mann-Whitney rank sum test).

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Neuromics Antibodies • 5325 West 74th Street, Suite 8 • Edina, MN 55439
 phone 866-350-1500 • fax 612-677-3976 • e-mail pshuster@neuromics.com