

**MOUSE ANTI-NERVE GROWTH FACTOR-RECEPTOR, p75  
MONOCLONAL ANTIBODY**

<b>CATALOG NUMBER:</b>	MAB5386	<b>QUANTITY:</b>	100 µg
<b>LOT NUMBER:</b>			
<b>ALTERNATE NAMES:</b>	low affinity NGF-Receptor; p75, NGFR	<b>EPITOPE:</b>	within aa 1-160, extracellular domain of human p75.
<b>CLONE NAME:</b>	ME20.4	<b>HOST/ISOTYPE:</b>	Ms IgG1
<b>BACKGROUND:</b>	The low affinity NGFR (Nerve growth factor receptor) is a 75kDa membrane-spanning glycoprotein lacking intrinsic tyrosine kinase activity. p75NGFR interacts with TrkA, the high affinity NGF receptor and potentiates TrkA signaling at low NGF concentrations. The p75 receptor binds nerve growth factor, brain-derived neurotrophic factor, neurotrophin-3 and neurotrophin-4 with varying specificities. The p75NGFR plays an important role in neurotrophic factor signaling and has been shown to modulate the susceptibility of selective cellular populations to programmed cell death. It is expressed on many neuronal cells types including many embryonic forms and the receptor can be used to isolate neuronal progenitor cells		
<b>SPECIFICITY:</b>	Reacts with the low affinity nerve growth factor receptor (NGFR p75). The epitope recognized by the antibody maps within the third or fourth cysteine-rich repeats of the NGFR molecule. Reactivity has not been observed with rat, chicken, or mouse NGFR.		
<b>IMMUNOGEN:</b>	Human melanoma cell line (Ross, 1984).		
<b>APPLICATIONS:</b>	Western blot: RIPA lysates of human HS294T cells; 1 µg/mL; recognizes ~69-75kDa band depending upon gel conditions. Immunohistochemistry: 5-10 µg/mL on frozen tissue. Immunohistochemistry on formalin-fixed, paraffin embedded sections. Immunocytochemistry: 5-10 µg/mL EM Immunohistochemistry {Caneva, et al 1995}. <a href="http://www.scripps.edu/bcmd/pdfarea/issue_09/soligo.pdf">http://www.scripps.edu/bcmd/pdfarea/issue_09/soligo.pdf</a> Immunoabsorptive purification of NGF-receptors. Inhibition of NGF binding to p-75NGFR Immunoprecipitation of p75 FACS: unfixed cells RIA  Optimal working dilutions must be determined by the end user.		
<b>SPECIES REACTIVITY:</b>	Reacts with Primate, Rabbit, Porcine (Pig), Human, Feline (Cat), Canine (Dog), Raccoon and Sheep (Ovine). Does not react with Rat, Mouse and Chicken.		
<b>FORMAT:</b>	Purified immunoglobulin.		
<b>PRESENTATION:</b>	Lyophilized. Reconstitute to 1 mg/mL with sterile distilled water.		

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**STORAGE/HANDLING:** Maintain lyophilized material -20°C for up to 6 months after date of receipt. After reconstitution maintain at 2-8°C in undiluted aliquots for up to 6 months.

**REFERENCES:** Tremere, LA, et al. (2000). Antibody for human p75 LNTR identifies cholinergic basal forebrain of non-primate species. *Neuroreport* 11:2177-2183.

Ross, AH, et al (1984). Characterization of nerve growth factor receptor in neural crest tumors using monoclonal antibodies. *PNAS.USA* 81:6681-6685.

**Important Note:** *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200  $\mu$ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

*For research use only; not for use as a diagnostic.*

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