

**Biotin-labeled Antibody to Nerve Growth Factor (p75) Receptor (ME20.4)**  
MOUSE MONOCLONAL

**Catalog Number:** AB-N07-BT  
**Quantity:** 50 micrograms  
**Format:** PBS (0.14 M Sodium Chloride; 0.003 M Potassium Chloride; 0.002 M Potassium Phosphate; 0.01 M Sodium Phosphate; pH 7.4), no preservative. Sterile-filtered.  
**Host:** Mouse  
**Isotype:** IgG<sub>1</sub>  
**Clone:** ME20.4  
**Immunogen:** WM245 melanoma cells

**Background:** The p75 neurotrophin receptor (p75<sup>NTR</sup>), also known as the low affinity nerve growth factor receptor, binds nerve growth factor, brain-derived neurotrophic factor, neurotrophin-3 and neurotrophin-4 with varying specificities. The p75<sup>NTR</sup> plays an important role in neurotrophic factor signaling and has been shown to modulate the susceptibility of selective cellular populations to programmed cell death.

**Specificity & Preparation:** This antibody recognizes the p75<sup>NTR</sup> (low affinity neurotrophin receptor) in human, primate, rabbit, sheep, dog, cat, and pig. It was derived from immunization of mice with WM245 melanoma cells. It has been conjugated to biotin via an amide bond. The antibody is routinely tested by flow cytometry.

**Usage:** Applications include flow cytometry (ATS in-house; 1:100), immunoprecipitation,<sup>4</sup> immunohistochemistry (frozen),<sup>1</sup> electron microscopy (1:200),<sup>2</sup> immunocytochemistry (10 ng/ml),<sup>3</sup> and radioimmunoassay.<sup>4</sup>

**Storage:** Store the antibody at -20°C for one year. Avoid repeated freezing and thawing. Gently spin down material 5-10 seconds in a microfuge before use.



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**Selected References:**

1. Tremere LA, Pinaud R, Grosche J, Hartig W, Rasmusson DD (2000) Antibody for human p75 LNTR identifies cholinergic basal forebrain of non-primate species. *Neuroreport* 11(10):2177-2183.
2. Caneva L, Soligo D, Cattoretti G, De Harven E, Delilieri GL. (1995) Immuno-electron microscopy characterization of human bone marrow stromal cells with anti-NGFR antibodies. *Blood Cells Mol Dis* 21:73-85.
3. Loy R, Heyer D, Clagett-Dame M, DiStefano PS (1990) Localization of NGF receptors in normal and Alzheimer's basal forebrain with monoclonal antibodies against the truncated form of the receptor. *J Neurosci Res* 27:651-664.
4. Ross AH, Grob P, Bothwell M, Elder DE, Ernst CS, Marano N, Ghrist BFD, Slemp CC, Herlyn M, Atkinson B, Koprowski H (1984) Characterization of nerve growth factor receptor in neural crest tumors using monoclonal antibodies. *PNAS* 81:6681-6685.

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