

Antibody to Nerve Growth Factor (p75) Receptor
RABBIT POLYCLONAL

Catalog Number: AB-N01
Quantity: 100 microliters
Format: Liquid antisera, no preservative
Host: Rabbit
Immunogen: extracellular fragment from the mouse p75 receptor (amino acids 43-161)

Background:

The p75 neurotrophin receptor (p75^{NTR}), 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^{NTR} 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 and Preparation:

This antibody recognizes the p75^{NTR} in mouse. The antisera was developed in rabbit using an extracellular fragment from the mouse p75 receptor (amino acids 43-161). The antibody is routinely tested by flow cytometry.

Usage and Storage:

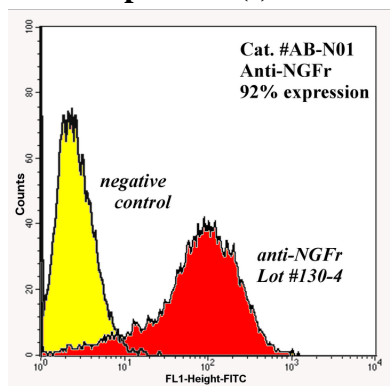
Applications include immunohistochemistry (frozen or paraffin-embedded cells and tissue; 1:150),² immunoprecipitation,³ immunoblotting (1:2,000),¹ flow cytometry (ATS in-house; 1:1,000), and blocking the function of nerve growth factor receptor (1:1,000).⁴

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

References:

1. Campagnolo L, Russo MA, Puglianiello A, Favale A, Siracusa G (2001) Mesenchymal cell precursors of peritubular smooth muscle cells of the mouse testis can be identified by the presence of the p75 neurotrophin receptor. *Biol Reprod* 64(2):464-472.
2. Bannerman P, Nichols W, Puhalla S, Oliver T, Berman M, Pleasure D (2000) Early migratory rat neural crest cells express functional gap junctions: Evidence that neural crest cell survival requires gap junction function. *J Neurosci Res* 61(6):605-615.
3. Huber LJ, Chao MV. (1995) Mesenchymal and neuronal cell expression of the p75 neurotrophin receptor gene occur by different mechanisms. *Devel Biol* 167:227-238.
4. Huber LJ, Lee K-F, Dreyfus CF, Chao MV (1994) Generation and characterization of a murine p75 receptor blocking antibody. *Soc Neurosci Mtg, Miami Beach FL*, Abstract #23-12.

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NG6 cells, a fusion of mouse neuroblastoma and rat glioma cells selected for their high expression of p75, were used for flow cytometry analysis with the anti-murine p75 antibody. Cells were treated for one hour with AB-N01 at a 1:100 dilution and subsequently with an anti-rabbit IgG conjugated to FITC. A 92% shift was seen relative to cells treated with only secondary antibody.



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