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**Antibody to Nerve Growth Factor (p75) Receptor, Affinity-Purified
RABBIT POLYCLONAL**

Catalog Number: AB-N01AP
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.
Host: Rabbit
Immunogen: extracellular fragment from the mouse p75 receptor (amino acids 43-161)

Background:

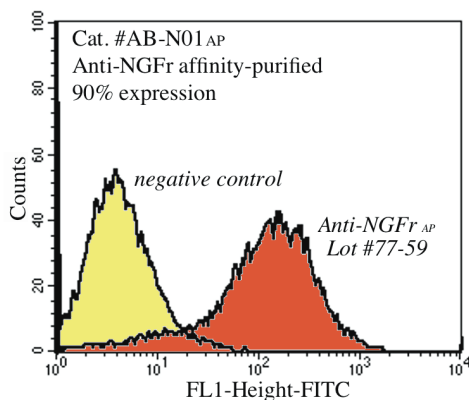
The p75 neurotrophin receptor (p75^{NTR}), also known as the low affinity nerve growth factor receptor, binds nerve growth factor, brain-derived neurotrophic factor, neurotrophin-3 and neurotrophin-4 with varying specificities. The p75^{NTR} plays an important role in neurotrophic factor signaling and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

Specificity and Preparation:

This antibody recognizes 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 was affinity-purified using the extracellular domain of p75. The antibody is routinely tested by flow cytometry.

Usage and Storage:

Applications include immunohistochemistry (paraffin sections; 1:100)¹ and flow cytometry (ATS in-house; 1:1,000).² 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.



NG6 cells, a clone of NG108-15 cells, were used for a flow cytometry analysis with the affinity-purified murine NGFr antibody. Cells were incubated for one hour with 4 µg of AB-N01AP, and subsequently with an anti-rabbit IgG conjugated to FITC (FL-04). A 90% shift was seen relative to control cells treated with secondary antibody only

References:

1. Rock JR, Onaitis MW, Rawlins EL, Lu Y, Clark CP, Xue Y, Randell SH, Hogan BL (2009) Basal cells as stem cells of the mouse trachea and human airway epithelium. *Proc Natl Acad Sci U S A* 106(31):12771-12775.
2. Lopez-Coviella I, Follettie MT, Mellott TJ, Kovacheva VP, Slack BE, Diesl V, Berse B, Thies RS, Blusztajn JK (2005) Bone morphogenetic protein 9 induces the transcriptome of basal forebrain cholinergic neurons. *Proc Natl Acad Sci U S A* 102(19):6984-6989.

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