

10451 ROSELLE STREET, #300, SAN DIEGO, CA 92121
TELEPHONE (858) 642-1988 • FAX (858) 642-1989
WWW.ATSBIO.COM • ATS@ATSBIO.COM

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:

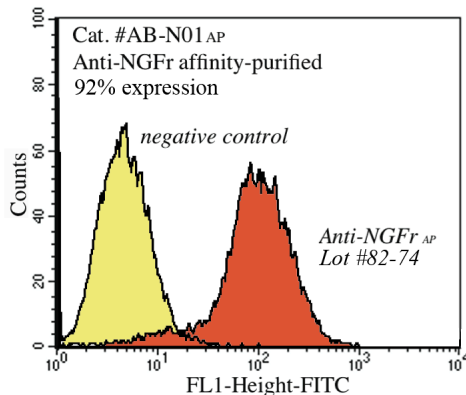
Applications include immunohistochemistry (paraffin sections; 1:100)¹ and flow cytometry (ATS in-house; 1:1,000).² Store the antibody at -20°C for one year. Avoid repeated freezing and thawing. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate.

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

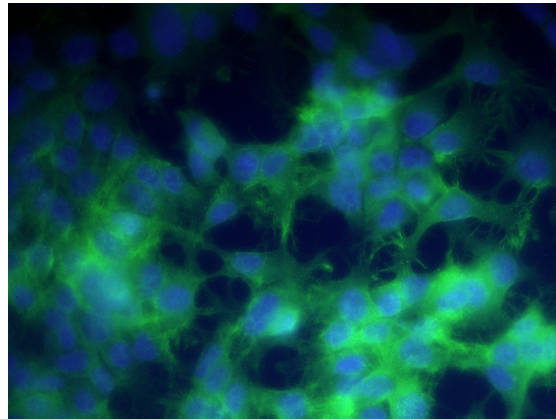
References:

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.

To view protocol(s) for this and other products please visit: www.ATSBio.com/protocols



NG6 cells a clone of NG108-15 cells, were used in flow cytometry for analysis of the affinity-purified murine NGFr antibody. Cells were incubated for one hour with 4 μg of AB-N01_{AP} and subsequently with an anti-rabbit IgG conjugated to FITC (FL-04). A 92% shift was seen relative to the control treated with secondary antibody alone.



Immunofluorescent staining of NG6 cells, a clone of the NG108-15 fusion of a mouse neuroblastoma and rat glioblastoma, with an affinity-purified rabbit polyclonal antibody directed against the murine low affinity nerve growth factor receptor (p75^{NTR}). Cells were fixed with paraformaldehyde and blocked prior to staining with primary at 10 $\mu\text{g}/\text{ml}$ followed by goat anti-rabbit-FITC secondary at 50 $\mu\text{g}/\text{ml}$ and DAPI at 5 $\mu\text{g}/\text{ml}$ for nuclear staining. Images were obtained using a 40x objective and a Leica DM IL fluorescent microscope. NGFr staining is represented in green and nuclear staining is represented in blue.