ADVANCED TARGETING SYSTEMS

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Alexa488-labeled Antibody to Nerve Growth Factor (p75) Receptor, Affinity-Purified
RABBIT POLYCLONAL

Catalog Number: FL-N01AP
Quantity: 25 micrograms, 50 micrograms, 100 micrograms
Format: 50% PBS (0.14 M Sodium Chloride; 0.003 M Potassium Chloride; 0.002 M Potassium Phosphate; 0.01 M Sodium Phosphate; pH 7.4), 50% glycerol; 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. It has been conjugated to the fluorescent dye Alexa488. 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]
Gently spin down material before use; 5-10 seconds in a microfuge should be adequate. The material can be handled safely using normal laboratory precautions. See Lot Number for lot-specific storage instructions.

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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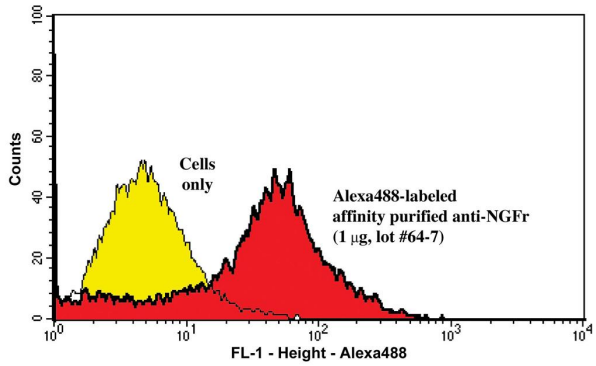

NG6 cells, a clone of the Rat-Mouse hybrid cell line NG108, were treated with Alexa488-labeled Anti-NGFr, at the dosage listed. Cells were incubated for one hour at 4°C, then washed with PBS/2%FBS. Samples were read on a BD FACScan and data processed with CellQuest software.