

**Antibody to Nerve Growth Factor (p75) Receptor (192-IgG)
MOUSE MONOCLONAL**

Catalog Number: AB-N43
Quantity: 50 micrograms
Format: PBS pH 7.4 and 0.05% sodium azide
Host: Mouse
Isotype: IgG1
Clone: 192
Immunogen: extracellular domain of rat p75

Background:

The low affinity nerve growth factor receptor (p75) is a 75kDa membrane-spanning glycoprotein lacking intrinsic tyrosine kinase activity. p75 is expressed in various parts of the brain, notably in the basal forebrain by cholinergic neurons. Loss of these neurons is one of the hallmarks of Alzheimer's disease.

Specificity and Preparation:

This antibody recognizes the rat p75 low-affinity nerve growth factor receptor. The immunogen is isolated n-octoglucoside stabilized proteins containing p75 receptor from PC-12 cells. The antibody was produced in ascites fluid and purified by 50% (NH₄)₂SO₄ precipitation followed by protein A column chromatography.

Usage and Storage:

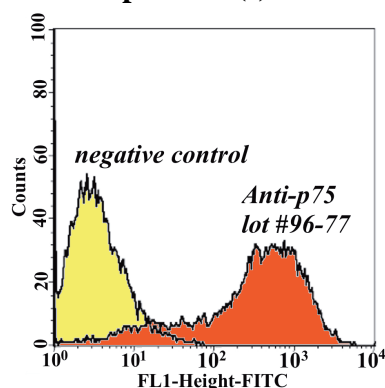
Applications include flow cytometry (1 µg per 2x10⁶ cells; ATS in-house), immunohistochemistry (1:500).¹ Working dilutions must be determined by end user.

Do not freeze this antibody. Store at 2-8°C for one year. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate.

References:

1. Iwatsuki K, Yoshimine T, Kishima H, Aoki M, Yoshimura K, Ishihara M, Ohnishi Y, Lima C. (2008) Transplantation of olfactory mucosa following spinal cord injury promotes recovery in rats. *Neuroreport* 19 (13):1249-1252.

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7H6 cells (a clone of C6 rat glioma cells) were used in flow cytometry with antibody to NGFr (192-IgG, p75, Cat. #AB-N43). Cells were treated with 1 µg of anti-p75 in the presence of 0.05% sodium azide, and subsequently with anti-murine IgG-FITC (Cat. #FL-07).