Advanced Targeting Systems

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

Catalog Number: AB-N43
Quantity: 50 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: 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 & 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% $(NH_4)_2SO_4$ precipitation followed by protein A column chromatography.

Usage: Applications include flow cytometry (1 µg per $2x10^6$ cells; ATS in-house), immunohistochemistry (1:500),[1] targeting (targeting agent in 192-IgG-SAP, Cat. #IT-01). Working dilutions must be determined by end user.

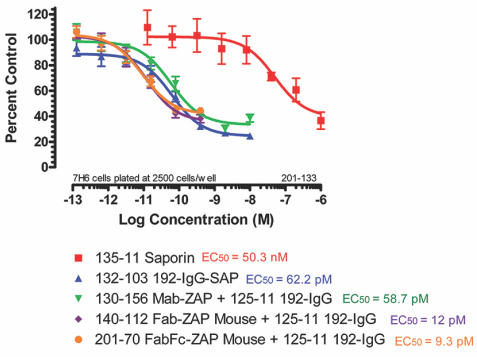
Storage: Store at -20°C for one year. Gently spin down material 5-10 seconds in a microfuge before use.

Scan to view all product references.

Selected 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.

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



7H6 cells were plated at 2500 cells/90 µl/well and incubated overnight. Saporin and 192-IgG-SAP dilutions were made in cell media, and 10 µl was added to each well. 192-IgG antibody was diluted in cell media containing, at a final concentration, 4.5 nM. Mab-ZAP, and 10 µl was added to each well. The same was done for Fab-ZAP Mouse and FabFc-ZAP Mouse. The plates were incubated 72 hours. The plates were developed with XTT/PMS solution and read at 450 nm. Data analysis was done with Prism software (GraphPad, San Diego)