



Cy3-labeled Antibody to Nerve Growth Factor (p75) Receptor (192 IgG) MOUSE MONOCLONAL

Catalog Number: AB-N43-FL3
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

Background: 192-IgG is the antibody to the p75 neurotrophin receptor (p75^{NTR}). The 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 & Preparation: This fluorescent conjugate recognizes p75 receptor-positive cells in rat. It was prepared using mouse monoclonal antibody 192-IgG conjugated to Cy3. This product is routinely tested by flow cytometry.

Usage: Applications include flow cytometry (ATS in-house; 4 µg/10⁶ cells per 200 µl), immunofluorescence,¹ immunocytochemistry (paraffin; 10-20 µg/ml TBS).² This product can also be used as a transport agent.²

Storage: Store at -20°C for one year. Gently spin down material 5-10 seconds in a microfuge before use. The material can be handled safely using normal laboratory precautions.

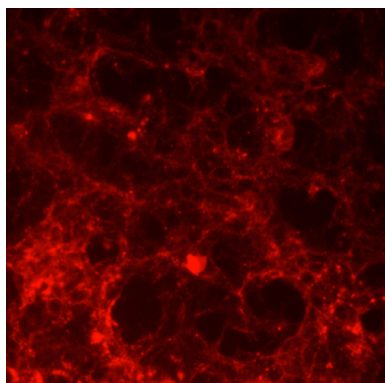


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Selected References:

1. Wu M, Shanabrough M, Leranthe C, Alreja M (2000) Cholinergic excitation of septohippocampal GABA but not cholinergic neurons: implications for learning and memory. *J Neurosci* 20(10):3900-3908.
2. Hartig W, Seeger J, Naumann T, Brauer K, Bruckner G. (1998) Selective *in vivo* fluorescence labelling of cholinergic neurons containing p75(NTR) in the rat basal forebrain. *Brain Res* 808 (2):155-165.

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HEK-293 cells, transfected with the p75 neurotrophin receptor were labeled with 192-IgG conjugated to Cy3 at 20 mg/ml and incubated at 37°C for 24 hours. Cells were then washed with PBS and analyzed on a fluorescent microscope under 20X magnification using a Y3 Leica filter cube.