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CARLSBAD, CA 92011 USA
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Cy3-labeled 192-IgG
MOUSE MONOCLONAL

Catalog Number: FL-01
Quantity: 25 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: 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 and 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 and Storage:

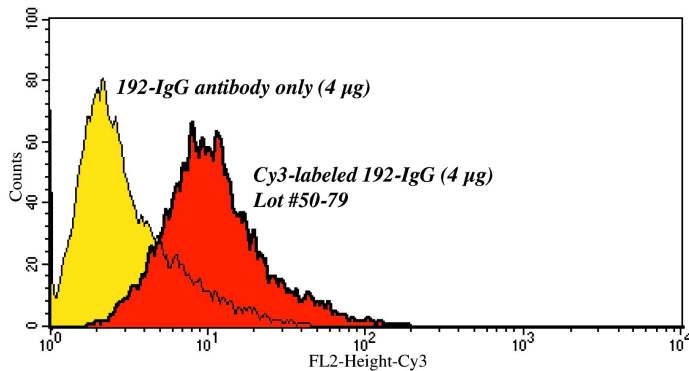
Applications include flow cytometry (ATS in-house; 4 μ g/10⁶ cells per 200 μ l), immunofluorescence,¹ immunocytochemistry (paraffin; 10-20 μ g/ml TBS).² This product can also be used as a transport agent.² Gently spin down material before use; 5-10 seconds in a microfuge should be adequate. The material can be handled safely using normal laboratory precautions. If the fluorescent conjugate contains 50% glycerol, the item can be stored frozen at -20°; if the item does not contain glycerol, the item CANNOT BE FROZEN, and should be stored in the refrigerator.

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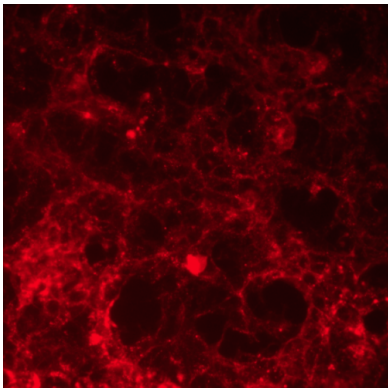
References:

1. Wu M, Shanabrough M, Leranath 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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C6/9 cells, a rat glioma cell line, were labeled with 192-IgG conjugated to Cy3 dye at various concentrations, and allowed to incubate at 4°C for one hour. Unlabeled antibody was used as a control. Cells were then washed, and samples analyzed on a BD FACScan. Data was processed using CellQuest software. The conjugated 192 IgG-Cy3 demonstrated a 43% positive shift versus the control.



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.