

**Alexa488-labeled 192-IgG
MOUSE MONOCLONAL**

Catalog Number: FL-03
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 Alexa 488. This product is routinely tested by flow cytometry.

Usage and Storage:

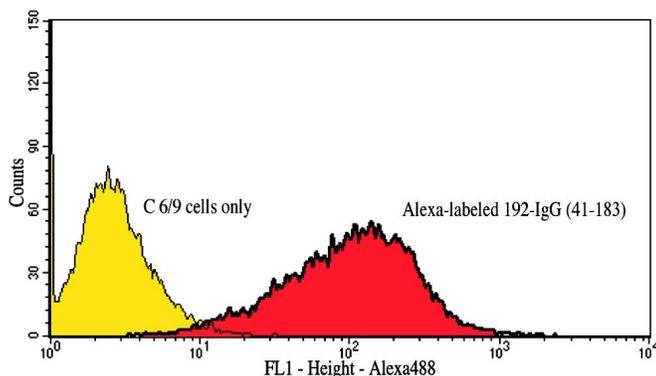
Applications include flow cytometry (ATS in-house; 1 μ g/10⁶ cells per 200 μ l), fluorescence spectroscopy,¹ fluorescence anisotropy,¹ epifluorescence microscopy (100 nM),² qualitative probe of binding to membrane-bound IgG's and the cytoskeleton (0.1 μ M).³

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. Harikumar KG, Pinon DI, Wessels WS, Prendergast FG, Miller LJ (2002) Environment and mobility of a series of fluorescent reporters at the amino terminus of structurally related peptide agonists and antagonists bound to the cholecystokinin receptor. *J Biol Chem* 277(21):18552-18560.
2. Bennett VJ, Simmons MA (2001) Analysis of fluorescently labeled substance P analogs: binding, imaging and receptor activation. *BMC Chem Biol* 1(1):1.
3. Salhany JM, Cordes KS, Sloan RL (2001) Characterization of immunoglobulin binding to isolated human erythrocyte membranes: evidence for selective, temperature-induced binding of naturally occurring autoantibodies to the cytoskeleton. *Biochim Biophys Acta* 1511(1):168-180.

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C 6/9 cells, a rat glioma cell line, were incubated with the fluorescent conjugate for one hour. Cells were run on a BD FACScan and data analyzed with CellQuest software.