



1B-642-C025

## Monoclonal Antibody to CD271 Biotin conjugated (0.025 mg)

<b>Clone:</b>	NGFR5
<b>Isotype:</b>	Mouse IgG1
<b>Specificity:</b>	The mouse monoclonal antibody NGFR5 (originally C34C) recognizes CD271/NGFR, a 75 kDa transmembrane glycoprotein of the TNFR superfamily. The epitope is localized within amino acids 1 - 160.
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	Purified CD271 protein isolated from human melanoma cell line A875
<b>Species Reactivity:</b>	Human, Non-Human Primates, Feline (Cat), Rabbit, Ferret
<b>Negative Species:</b>	Mouse, Rat
<b>Preparation:</b>	The purified antibody is conjugated with Biotin-LC-NHS under optimum conditions. The reagent is free of unconjugated biotin.
<b>Concentration:</b>	1 mg/ml
<b>Storage Buffer:</b>	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
<b>Storage / Stability:</b>	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
<b>Usage:</b>	Biotinylated antibody is designed for indirect immunofluorescence analysis by Flow Cytometry.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	CD271 / NGFR, also known as p75NGFR or p75NTR, is a 75 kDa low affinity receptor for the NGF (nerve growth factor), BDNF (brain-derived growth factor), and other neurotrophins, such as NT3 and NT4/5. Unlike other members of the tumor necrosis factor receptor superfamily of transmembrane proteins, CD271 has unique intracellular domain structure (lacks catalytic activity) and downstream signaling partners. Triggered by its ligands CD271 affects growth, differentiation, migration and death of the nervous system cells.

**For laboratory research only, not for drug, diagnostic or other use.**



**Antibodies**

**References:**

- \*Thompson SJ, Schatteman GC, Gown AM, Bothwell M: A monoclonal antibody against nerve growth factor receptor. Immunohistochemical analysis of normal and neoplastic human tissue. *Am J Clin Pathol.* 1989 Oct;92(4):415-23.
- \*Marano N, Dietzschold B, Earley JJ Jr, Schatteman G, Thompson S, Grob P, Ross AH, Bothwell M, Atkinson BF, Koprowski H: Purification and amino terminal sequencing of human melanoma nerve growth factor receptor. *J Neurochem.* 1987 Jan;48(1):225-32.
- \*Schatteman GC, Gibbs L, Lanahan AA, Claude P, Bothwell M: Expression of NGF receptor in the developing and adult primate central nervous system. *J Neurosci.* 1988 Mar;8(3):860-73.
- \*Schatteman GC, Gibbs L, Lanahan AA, Claude P, Bothwell M: Expression of NGF receptor in the developing and adult primate central nervous system. *J Neurosci.* 1988 Mar;8(3):860-73.
- \*Alpers CE, Hudkins KL, Ferguson M, Johnson RJ, Schatteman GC, Bothwell M: Nerve growth factor receptor expression in fetal, mature, and diseased human kidneys. *Lab Invest.* 1993 Dec;69(6):703-13.

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