

1A-642-T100

Monoclonal Antibody to CD271 Allophycocyanin (APC) conjugated (100 tests)

Clone:	NGFR5
Isotype:	Mouse IgG1
Specificity:	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.
Regulatory Status:	RUO
Immunogen:	Purified CD271 protein isolated from human melanoma cell line A875
Species Reactivity:	Human, Non-Human Primates, Feline (Cat), Rabbit, Ferret
Negative Species:	Mouse, Rat
Preparation:	The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Storage Buffer:	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
Storage / Stability:	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
Usage:	The reagent is designed for Flow Cytometry analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Expiration:	See vial label
Lot Number:	See vial label
Background:	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.

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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.
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- *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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