

TECHNICAL DATA SHEET

CyFlow™ CD271 Biotin Anti-Hu; Clone NGFR5

REF CN174919

For Research Use Only.
Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD271
Alternative Names	NGFr(p75), p75(NTR), TNFRSF16, NTR, LNGFR
Clone	NGFR5
Clonality	monoclonal
Format	Biotin
Host / Isotype	Mouse / IgG1
Species Reactivity	Human, Non-Human Primates Cat Ferret Rabbit
Negative Species Reactivity	Mouse Rat
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Purified CD271 protein isolated from human melanoma cell line A875

Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: info@sysmex-partec.com

Specificity

The mouse monoclonal antibody NGFR5 (originally C34C) recognizes CD271 antigen, a 75 kDa transmembrane glycoprotein of the TNFR superfamily. The epitope is localized within amino acids 1 - 160.

Application

The reagent is designed for indirect immunofluorescence analysis by Flow Cytometry. Suggested working usage is 5 µg/ml. Indicated dilution is recommended starting point for use of this product, but working concentrations should be validated by the investigator.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

CD271 (NGFR, p75NGFR, 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.

References

- Marano N, Dietzschold B, Earley JJ Jr, Schattelman 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. < PMID: 3025363 >

Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: info@sysmex-partec.com

- 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. < PMID: 2831315 >
- 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. < PMID: 2552791 >
- 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. < PMID: 7903404 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: info@sysmex-partec.com