Datasheet for ABIN2749123

anti-NGFR antibody (APC)

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Overview

Quantity:	100 tests
Target:	NGFR
Reactivity:	Human, Non-Human Primate, Rabbit, Cat, Ferret
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This NGFR antibody is conjugated to APC
Application:	Flow Cytometry (FACS), Intracellular Flow Cytometry (ICFC)

Product Details

Purpose:	Anti-Hu CD271 APC
Immunogen:	Purified CD271 protein isolated from human melanoma cell line A875
Clone:	NGFR5
Isotype:	IgG1
Specificity:	The mouse monoclonal antibody NGFR5 (originally C34C) recognizes an epitope within ammino acids 1 - 160 of CD271/NGFR, a 75 kDa transmembrane glycoprotein of the TNFR superfamily.
No Cross-Reactivity:	Mouse, Rat
Cross-Reactivity (Details):	Human, Non-Human Primates, Feline (Cat), Rabbit, Ferret
Purification:	Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion

Product Details

	chromatography.

Target Details

Target:	NGFR
Alternative Name:	CD271 (NGFR Products)
Background:	Nerve growth factor receptor,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.,TNFRSF16, NGFR, p75NTR, p75NGFR
Gene ID:	4804
UniProt:	P08138
Pathways:	NF-kappaB Signaling, Neurotrophin Signaling Pathway, Carbohydrate Homeostasis, Growth Factor Binding

Application Details

Application Notes:	Flow cytometry: The reagent is designed for 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. Extracellular and intracellular staining.
Restrictions:	For Research Use only

Handling

Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

Product cited in:

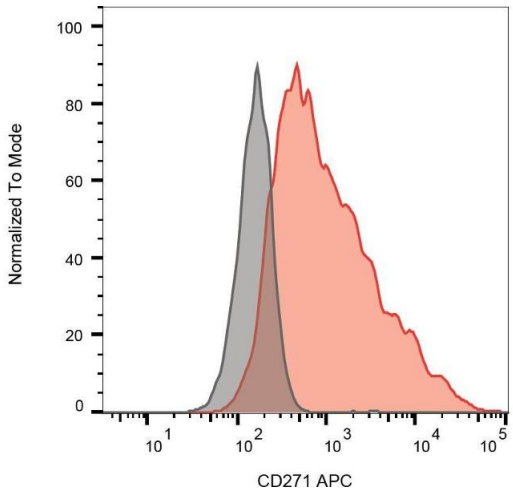
Alpers, Hudkins, Ferguson, Johnson, Schatteman, Bothwell: "Nerve growth factor receptor expression in fetal, mature, and diseased human kidneys." in: **Laboratory investigation; a journal of technical methods and pathology**, Vol. 69, Issue 6, pp. 703-13, (1994) (PubMed).

Thompson, Schatteman, Gown, Bothwell: "A monoclonal antibody against nerve growth factor receptor. Immunohistochemical analysis of normal and neoplastic human tissue." in: **American journal of clinical pathology**, Vol. 92, Issue 4, pp. 415-23, (1989) (PubMed).

Schatteman, Gibbs, Lanahan, Claude, Bothwell: "Expression of NGF receptor in the developing and adult primate central nervous system." in: **The Journal of neuroscience : the official journal of the Society for Neuroscience**, Vol. 8, Issue 3, pp. 860-73, (1988) (PubMed).

Marano, Dietzschold, Earley, Schatteman, Thompson, Grob, Ross, Bothwell, Atkinson, Koprowski: "Purification and amino terminal sequencing of human melanoma nerve growth factor receptor." in: **Journal of neurochemistry**, Vol. 48, Issue 1, pp. 225-32, (1987) (PubMed).

Images



Flow Cytometry

Image 1. Surface staining (flow cytometry) of REH cells with anti-CD271 (NGFR5) APC.