Datasheet for ABIN1176837

anti-NGFR antibody

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Overview

Quantity:	0.1 mg
Target:	NGFR
Reactivity:	Human, Non-Human Primate, Rabbit, Cat, Ferret
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This NGFR antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Immunoprecipitation (IP), Cytometry by Time of Flight (CyTOF)

Product Details

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 by protein-A affinity chromatography.

Product Details

Purity:	> 95 % (by SDS-PAGE)

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:	Immunohistochemistry (paraffin sections): Recommended dilution: 1-2 µg/mL, Positive tissue: melanoma, heat-mediated antigen retrieval. Flow cytometry: Extracellular and intracellular staining, recommended dilution: 1-4 µg/mL.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	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.
Handling Advice:	**Do not freeze.**
Storage:	4 °C

Handling

Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

Product cited in:

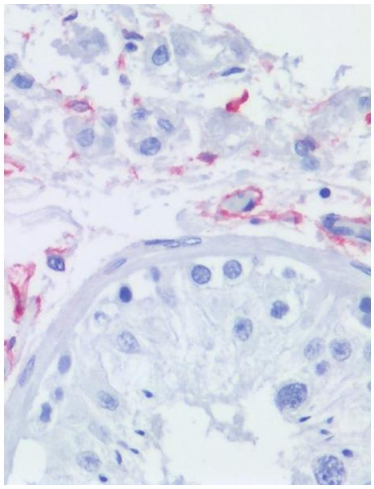
Alpers, Hudkins, Ferguson, Johnson, Schatteman, Bothwell: "Nerve growth factor receptor expression in fetal, mature, and diseased human kidneys." in: **Laboratory investigation; a journal of technical methods and pathology**, Vol. 69, Issue 6, pp. 703-13, (1994) (PubMed).

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).

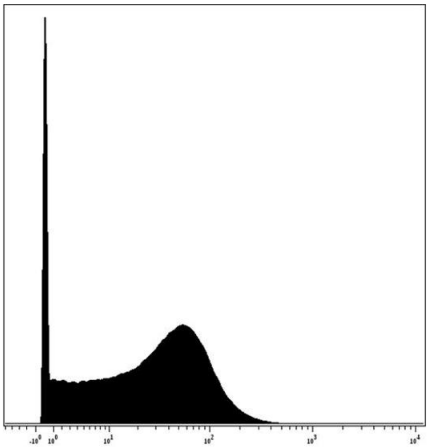
Marano, Dietzschold, Earley, Schatteman, Thompson, Grob, Ross, Bothwell, Atkinson, Koprowski: "Purification and amino terminal sequencing of human melanoma nerve growth factor receptor." in: **Journal of neurochemistry**, Vol. 48, Issue 1, pp. 225-32, (1987) (PubMed).

Images



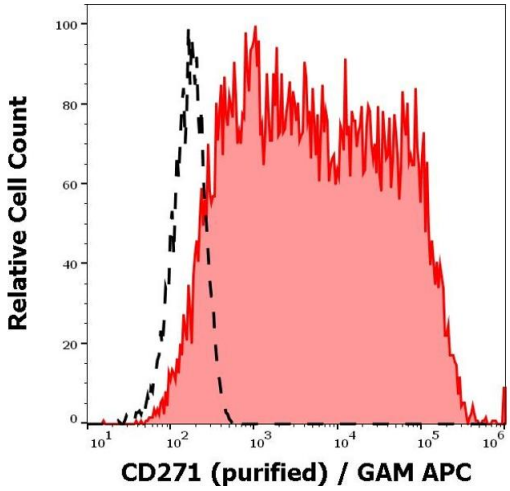
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry staining of human testis (paraffin sections) using anti-CD271 (NGFR5).



Cytometry by Time of Flight

Image 2. Mass cytometry (surface staining) of brain tumor cells with anti-CD271 (NGFR5) 143Nd. Gated on singlets.



Flow Cytometry

Image 3. Separation of SK-MEL-30 cells stained using anti-CD271 (NGFR5) purified antibody (concentration in sample 1,7 µg/mL, GAM APC, red-filled) from SK-MEL-30 cells unstained by primary antibody (GAM APC, black-dashed) in flow cytometry analysis (surface staining).

