

ARG65518 anti-CD271 / NGFR p75 antibody [NGFR5]

Package: 100 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [NGFR5] recognizes CD271 / NGFR p75
Tested Reactivity	Hu, Cat, Frt, NHuPrm, Rb
Species Does Not React With	Ms, Rat
Tested Application	CyTOF®-candidate, FACS, ICC/IF, IHC-P, IP, WB
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.
Host	Mouse
Clonality	Monoclonal
Clone	NGFR5
Isotype	IgG1
Target Name	CD271 / NGFR p75
Species	Human
Immunogen	Purified CD271 protein isolated from human melanoma cell line A875
Conjugation	Un-conjugated
Alternate Names	Gp80-LNGFR; CD271; CD antigen CD271; p75 ICD; Tumor necrosis factor receptor superfamily member 16; p75NTR; NGF receptor; TNFRSF16; p75(NTR); Low affinity neurotrophin receptor p75NTR; Low-affinity nerve growth factor receptor

Application Instructions

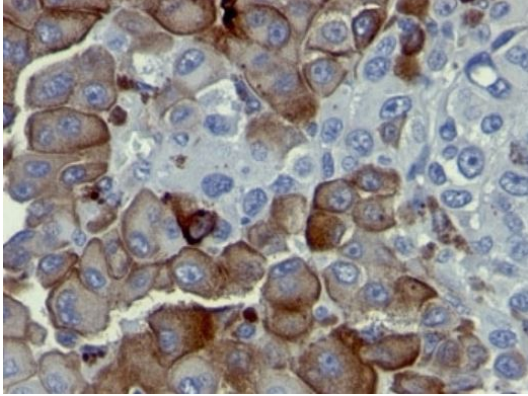
Application table	Application	Dilution
	CyTOF®-candidate	Assay-dependent
	FACS	1 - 4 µg/ml
	ICC/IF	1:10 - 1:200
	IHC-P	1 - 2 µg/ml
	IP	Assay-dependent
	WB	Assay-dependent
Application Note	Immunohistochemistry (paraffin sections): Positive tissue: melanoma Application note: heat-mediated antigen retrieval * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form	Liquid
Purification	Purified from cell culture supernatant by protein-A affinity chromatography.
Purity	> 95% (by SDS-PAGE)
Buffer	PBS (pH 7.4) and 15 mM Sodium azide
Preservative	15 mM Sodium azide
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

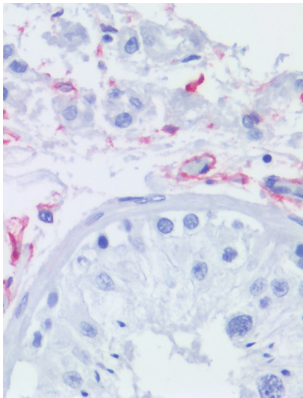
Bioinformation

Database links	GeneID: 4804 Human Swiss-port # P08138 Human
Gene Symbol	NGFR
Gene Full Name	nerve growth factor receptor
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.
Function	Plays a role in the regulation of the translocation of GLUT4 to the cell surface in adipocytes and skeletal muscle cells in response to insulin, probably by regulating RAB31 activity, and thereby contributes to the regulation of insulin-dependent glucose uptake (By similarity). Low affinity receptor which can bind to NGF, BDNF, NT-3, and NT-4. Can mediate cell survival as well as cell death of neural cells. Necessary for the circadian oscillation of the clock genes ARNTL/BMAL1, PER1, PER2 and NR1D1 in the suprachiasmatic nucleus (SCN) of the brain and in liver and of the genes involved in glucose and lipid metabolism in the liver. [UniProt]
Research Area	Developmental Biology antibody; Neuroscience antibody
Calculated Mw	45 kDa
PTM	N- and O-glycosylated. O-linked glycans consist of Gal(1-3)GalNAc core elongated by 1 or 2 NeuNAc. Phosphorylated on serine residues.



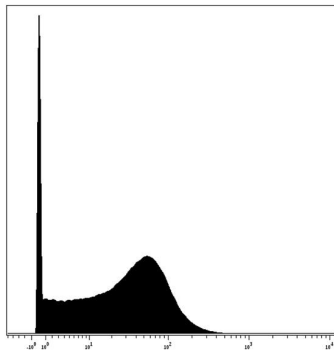
ARG65518 anti-CD271 / NGFR p75 antibody [NGFR5] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human melanoma tissue stained with ARG65518 anti-CD271 / NGFR p75 antibody [NGFR5].



ARG65518 anti-CD271 / NGFR p75 antibody [NGFR5] IHC-P image

Immunohistochemistry: Paraffin-embedded Human testis tissue stained with ARG65518 anti-CD271 / NGFR p75 antibody [NGFR5].



ARG65518 anti-CD271 / NGFR p75 antibody [NGFR5] CyTOF image

CyTOF: Human brain tumor cells were stained with ARG65518 anti-CD271 / NGFR p75 antibody [NGFR5] (143Nd). Singlet cells were gated for data analysis.
