ARG54286
anti-CD271 / NGFR p75 antibody [NGFR5] (APC)

Package: 50 tests
Store at: 4°C

Summary

Product Description	APC-conjugated Mouse Monoclonal antibody [NGFR5] recognizes CD271 / NGFR p75
Tested Reactivity	Hu, Cat, Frt, NHuPrm, Rb
Species Does Not React With	Ms, Rat
Tested Application	FACS
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	APC
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
FACS	10 µl / 10^6 cells

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

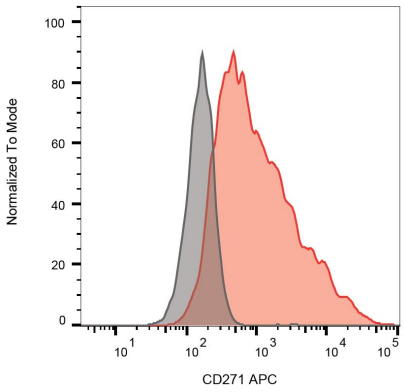
Form	Liquid
Purification Note	The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Buffer	PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA
Preservative	15 mM Sodium azide
Stabilizer	0.2% (w/v) high-grade protease free BSA

Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. 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.

Images



ARG54286 anti-CD271 / NGFR p75 antibody [NGFR5] (APC) FACS image

Flow Cytometry: REH cells stained with ARG54286 anti-CD271 / NGFR p75 antibody [NGFR5] (APC).