

ARG83219 Mouse CD271 / NGFR p75 ELISA Kit

Package: 96 wells

Store at: 4°C

Summary

Product Description	ARG83219 Mouse CD271 / NGFR p75 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse CD271 / NGFR p75 in Serum, Cell lysates, Plasma and Cell culture supernatants.
Tested Reactivity	Ms
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	CD271 / NGFR p75
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	15 pg/ml
Detection Range	31.2 pg/ml - 2,000 pg/ml
Sample Type	Serum, Cell lysates, Plasma and Cell culture supernatants
Precision	Intra-Assay CV: 6.4% Inter-Assay CV: 7.6%
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

Assay Time	~ 5 hours
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

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

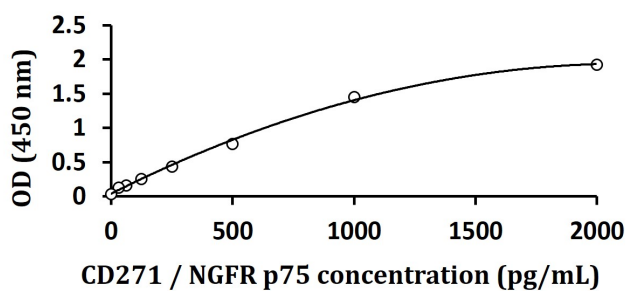
nervous system cells.

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

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



ARG83219 Mouse CD271 / NGFR p75 ELISA Kit standard curve image

ARG83219 Mouse CD271 / NGFR p75 ELISA Kit results of a typical standard run with optical density reading at 450 nm.
