

CD271 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51390

Specification

CD271 Antibody - Product Information

Application	WB, E
Primary Accession	P08138
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	75 KDa

CD271 Antibody - Additional Information

Gene ID 4804

Other Names

Tumor necrosis factor receptor superfamily member 16, Gp80-LNGFR, Low affinity neurotrophin receptor p75NTR, Low-affinity nerve growth factor receptor, NGF receptor, p75 ICD, CD271, NGFR, TNFRSF16

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

CD271 Antibody - Protein Information

Name NGFR

Synonyms TNFRSF16

Function

Low affinity receptor which can bind to NGF, BDNF, NTF3, and NTF4. Forms a heterodimeric receptor with SORCS2 that binds the precursor forms of NGF, BDNF and NTF3 with high affinity, and has much lower affinity for mature NGF and BDNF (PubMed: [24908487](http://www.uniprot.org/citations/24908487)). Plays an important role in differentiation and survival of specific neuronal populations during development (By similarity). Can mediate cell survival as well as cell death of neural cells. Plays a role in the inactivation of RHOA (PubMed: [26646181](http://www.uniprot.org/citations/26646181)). 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). Necessary for the circadian oscillation of the clock genes BMAL1, PER1, PER2 and NR1D1 in the suprachiasmatic nucleus (SCMgetaN) of the brain and in liver and of the genes involved in glucose and lipid metabolism in the liver (PubMed:

href="http://www.uniprot.org/citations/23785138" target="_blank">23785138). Together with BFAR negatively regulates NF-kappa-B and JNK-related signaling pathways (PubMed:22566094).

Cellular Location

Cell membrane; Single-pass type I membrane protein. Cytoplasm. Perikaryon
{ECO:0000250|UniProtKB:Q9Z0W1}. Cell projection, growth cone
{ECO:0000250|UniProtKB:Q9Z0W1}. Cell projection, dendritic spine
{ECO:0000250|UniProtKB:Q9Z0W1}

CD271 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CD271 Antibody - Images

CD271 Antibody - Background

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.

CD271 Antibody - References

Johnson D., et al. Cell 47:545-554(1986).
Ota T., et al. Nat. Genet. 36:40-45(2004).
Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Sehgal A., et al. Mol. Cell. Biol. 8:3160-3167(1988).
Ye X., et al. J. Biol. Chem. 274:30202-30208(1999).