

NGFR / CD271 Antibody
Rabbit Polyclonal Antibody
Catalog # ALS11422**Specification**

NGFR / CD271 Antibody - Product Information

Application	WB, IHC-P, ICC
Primary Accession	P08138
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	45kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A ICC~~N/A

NGFR / 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

Target/Specificity

purified recombinant human NGFR

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions

NGFR / CD271 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

NGFR / 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). 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). 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:23785138). Together with BFAR negatively regulates NF-kappa-B and JNK-related signaling pathways (PubMed:22566094).

Cellular Location

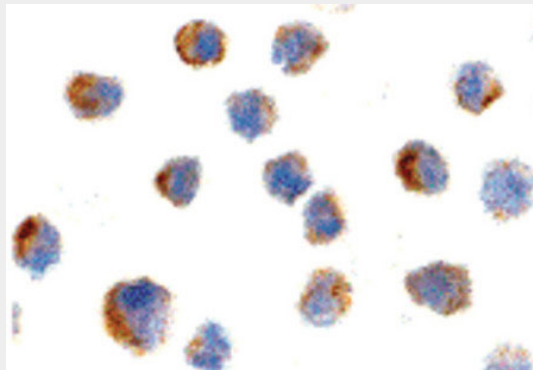
Cell membrane; Single-pass type I membrane protein. Cytoplasm. Perikaryon
{ECO:0000250|UniProtKB:Q9Z0W1}. Cell projection, growth cone
{ECO:0000250|UniProtKB:Q9Z0W1}. Cell projection, dendritic spine
{ECO:0000250|UniProtKB:Q9Z0W1}

NGFR / CD271 Antibody - Protocols

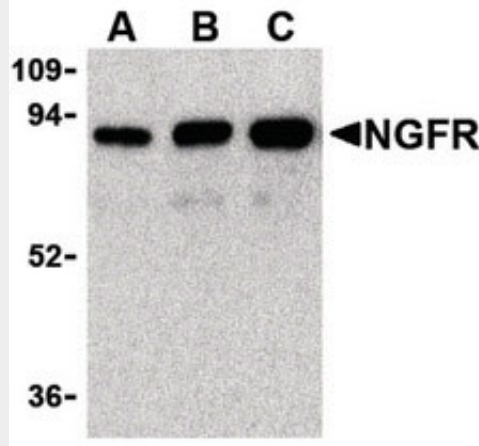
Provided below are standard protocols that you may find useful for product applications.

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

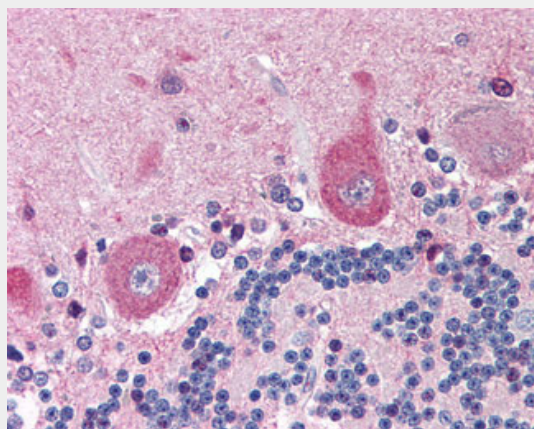
NGFR / CD271 Antibody - Images



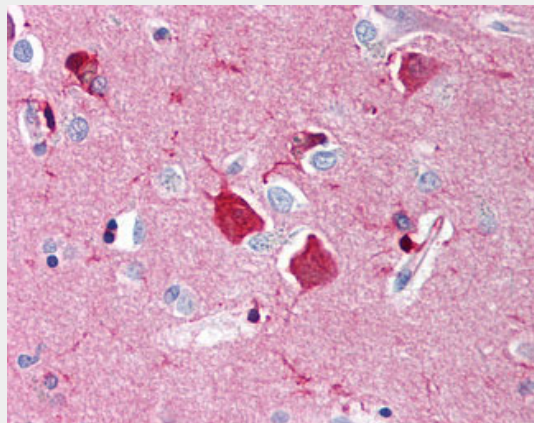
Immunocytochemistry of NGFR in A20 cells with NGFR antibody at 10 ug/ml.



Western blot of (A) 25 ng, (B) 50 ng, and (C) 100 ng of purified recombinant NGFR with NGFR...



Anti-NGFR antibody IHC of human brain, cerebellum.



Anti-NGFR antibody IHC of human brain, cortex.

NGFR / 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. 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.

NGFR / CD271 Antibody - References

Johnson D.,et al.Cell 47:545-554(1986).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Zody M.C.,et al.Nature 440:1045-1049(2006).
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).