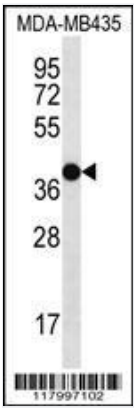
CD271 Antibody – Rabbit Polyclonal

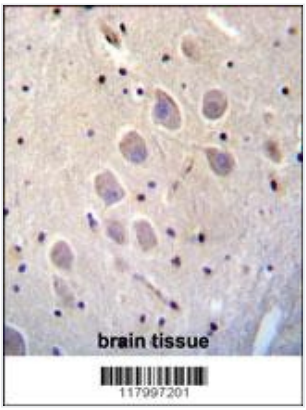
PRODUCT OVERVIEW

Product Name	CD271, Polyclonal Antibody
Full Product Name	CD271, CT (NGFR, TNFRSF16, Tumor necrosis factor receptor superfamily member 16, Gp80-LNGFR, Low affinity neurotrophin receptor p75NTR, Low-affinity nerve growth factor receptor, p75 ICD, CD271) (Biotin)
Product Gene Name	anti-CD271 antibody
Product Synonym Gene Name	NGFR
Product Synonym Names	NGFR; TNFRSF16; Tumor necrosis factor receptor superfamily member 16; Gp80-LNGFR; Low affinity neurotrophin receptor p75NTR; Low-affinity nerve growth factor receptor; p75 ICD; CD271
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	45,183 Da
Chromosome Location	Chromosome: 17; NC_000017.10 (47572655..47592382). Location: 17q21-q22
OMIM	162010
3D Structure	ModBase 3D Structure for P08138
Immunogen	CD271 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 352-381 amino acids from the C-terminal region of human CD271.
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-CD271 antibody	Antibodies; Receptors
Applications Tested/Suitable for anti-CD271 antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-CD271 antibody	IHC: 1:10-50 ELISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-CD271 antibody	Nerve growth factor receptor contains an extracellular domain containing four 40-amino acid repeats with 6 cysteine residues at conserved positions followed by a serine/threonine-rich region, a single transmembrane domain, and a 155-amino acid cytoplasmic domain. The cysteine-rich region contains the nerve growth factor binding domain.

Product References and Citations for anti-CD271 antibody	Boiko, A.D., et al. Nature 466(7302):133-137(2010). Ceni, C., et al. J. Cell. Sci. 123 (PT 13), 2299-2307 (2010): Schuurhof, A., et al. Pediatr. Pulmonol. 45(6):608-613(2010). Bosker, F.J., et al. Mol. Psychiatry (2010). In press: Sornelli, F., et al. Mol. Vis. 16, 1439-1447 (2010).
Other Notes	Small volumes of anti-CD271 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CD271 purchase	MBS6282984 is an antibody targeting CD271. Also known as CD271, CT (NGFR, TNFRSF16, Tumor necrosis factor receptor superfamily member 16, Gp80-LNGFR, Low affinity neurotrophin receptor p75NTR, Low-affinity nerve growth factor receptor, p75 ICD, CD271) (Biotin). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-CD271 antibody
CD271 Antibody (C-term) western blot analysis in MDA-MB435 cell line lysates (35ug/lane).This demonstrates the CD271 antibody detected the CD271 protein (arrow).



Immunohistochemistry (IHC) of anti-CD271 antibody
CD271 Antibody (C-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of CD271 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD271. It may not necessarily be applicable to this product.

NCBI GI #	4505393
NCBI GeneID	4804
NCBI Accession #	NP_002498.1
UniProt Primary Accession #	P08138
UniProt Secondary Accession #	B2R961
UniProt Related Accession #	P08138
GenBank Nucleotide #	NM_002507.3
NCBI Official Full Name	tumor necrosis factor receptor superfamily member 16
NCBI Official Synonym Full Names	nerve growth factor receptor
NCBI Official Symbol	NGFR
NCBI Official Synonym Symbols	CD271; p75NTR; TNFRSF16; p75(NTR); Gp80-LNGFR
UniProt Protein Name	Tumor necrosis factor receptor superfamily member 16
UniProt Synonym Protein Names	Gp80-LNGFR; Low affinity neurotrophin receptor p75NTR; Low-affinity nerve growth factor receptor; NGF receptor; p75 ICD
UniProt Gene Name	NGFR
UniProt Synonym Gene Names	TNFRSF16; NGF receptor
UniProt Entry Name	TNR16_HUMAN

NCBI Protein Information	tumor necrosis factor receptor superfamily member 16; p75 ICD; NGF receptor; TNFR superfamily, member 16; low affinity nerve growth factor receptor; low affinity neurotrophin receptor p75NTR; low-affinity nerve growth factor receptor
UniProt Comments for CD271	NGFR: 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. Homodimer; disulfide-linked. Interacts with p75NTR- associated cell death executor. Interacts with TRAF2, TRAF4, TRAF6, PTPN13 and RANBP9. Interacts through TRAF6 with SQSTM1 which bridges NGFR to NTRK1. Interacts with BEX1 and NGFRAP1/BEX3. Interacts with KIDINS220 and NTRK1. Can form a ternary complex with NTRK1 and KIDINS220 and this complex is affected by the expression levels of KIDINS220. An increase in KIDINS220 expression leads to a decreased association of NGFR and NTRK1. Interacts with NTRK2; may regulate the ligand specificity of the NTRK2 receptor. Interacts with LINGO1. Protein type: Membrane protein, integral; Receptor, misc. Chromosomal Location of Human Ortholog: 17q21-q22 Cellular Component: nucleoplasm; cell surface; integral to plasma membrane; extracellular region; plasma membrane; cytosol; endosome Molecular Function: signal transducer activity; protein binding; transmembrane receptor activity; ubiquitin protein ligase binding; death receptor activity; nerve growth factor binding; receptor activity; Rab GTPase binding Biological Process: detection of temperature stimulus; axon guidance; hair follicle morphogenesis; membrane protein intracellular domain proteolysis; central nervous system development; nerve growth factor receptor signaling pathway; negative regulation of fibroblast growth factor receptor signaling pathway; positive regulation of apoptosis; positive regulation of odontogenesis of dentine-containing teeth; regulation of caspase activity; glucose homeostasis; regulation of axonogenesis; negative regulation of hair follicle development; negative regulation of cell cycle; intracellular protein transport; positive regulation of fibroblast proliferation; negative regulation of axonogenesis; positive regulation of axonogenesis; nerve development; circadian regulation of gene expression; negative regulation of apoptosis
Research Articles on CD271	**1.** the juxtamembrane region of p75(ICD) acts to cause a conformational change within the extracellular domain of TrkA.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/cd271/6282984