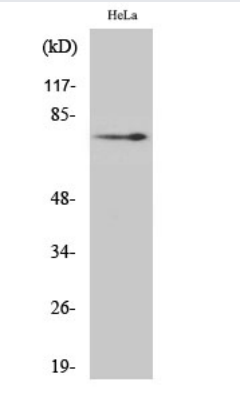
NGFR Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NGFR p75, Polyclonal Antibody
Full Product Name	NGFR p75 Polyclonal Antibody
Product Gene Name	anti-NGFR antibody
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; NGF receptor; p75 ICD; CD antigen CD271
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
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
Applications Tested/Suitable for anti-NGFR antibody	Western Blot (WB)
Related Product Information for anti-NGFR antibody	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.
Other Notes	Small volumes of anti-NGFR 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 NGFR purchase	MBS9244510 is an antibody targeting NGFR. Also known as NGFR p75 Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Wester Blot (WB) of anti-NGFR antibody
Dilution: Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NGFR. 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
Protein Family	Tumor necrosis factor receptor superfamily
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
NCBI Summary for NGFR	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. [provided by RefSeq, Jul 2008]

UniProt Comments for NGFR	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 NGFR	**1.** the juxtamembrane region of p75(ICD) acts to cause a conformational change within the extracellular domain of TrkA.
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