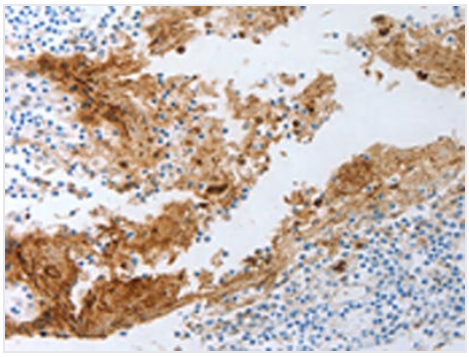
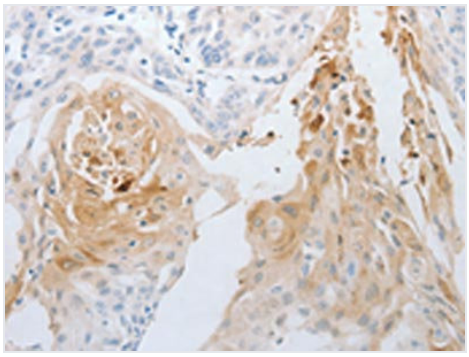
NGFR Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NGFR, Polyclonal Antibody
Full Product Name	NGFR Antibody
Product Gene Name	anti-NGFR antibody
Product Synonym Names	Nerve growth factor receptor
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid; In Phosphate Buffered Saline, pH 7.4, 0.05% NaN3, and 40% Glycerol
Purity/Purification	Antigen Affinity Purification
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
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	Synthetic peptide of human NGFR
Immunogen Species	Human
Conjugate	Non-conjugated
Product Categories/Family for anti-NGFR antibody	Neuroscience
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-NGFR antibody	ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-NGFR antibody	ELISA: 1:1000-1:5000 WB: 1:500-1:2000 IHC: 1:25-1:100
Related Product Information for anti-NGFR antibody	MBS7128029 is an antibody targeting NGFR. Also known as NGFR Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
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.



Immunohistochemistry (IHC)-Paraffin of anti-NGFR antibody
The image on the left is immunohistochemistry of paraffin-embedded Human tonsil tissue using MBS7128029(NGFR Antibody) at dilution 1/30, on the right is treated with synthetic peptide. (Original magnification: ×200)



Immunohistochemistry (IHC)-Paraffin of anti-NGFR antibody
The image on the left is immunohistochemistry of paraffin-embedded Human cervical cancer tissue using MBS7128029(NGFR Antibody) at dilution 1/30, on the right is treated with synthetic peptide. (Original magnification: ×200)



SDS-Page of anti-NGFR antibody
Gel: 10%SDS-PAGE, Lysate: 50 ug, Lane: Mouse heart tissue, Primary antibody: MBS7128029(NGFR Antibody) at dilution 1/600, Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution, Exposure time: 20 seconds

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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