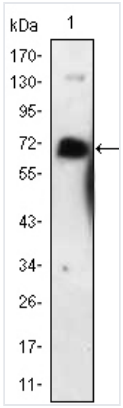
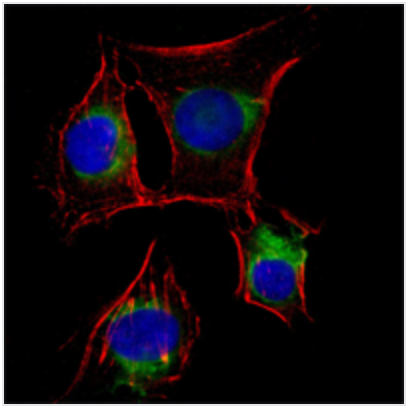
NGFR Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

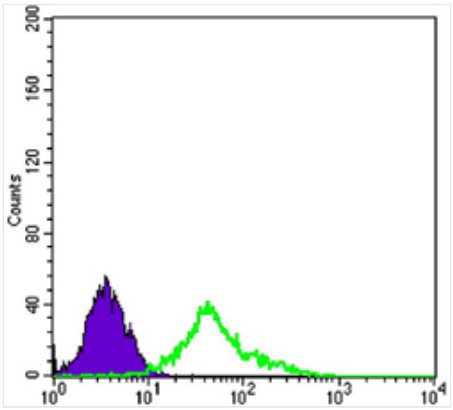
Product Name	NGFR, Monoclonal Antibody
Full Product Name	Anti-NGFR Mouse mAb
Product Gene Name	anti-NGFR antibody
Product Synonym Gene Name	CD271; p75NTR; TNFRSF16; p75 (NTR); Gp80-LNGFR; NGFR
Product Synonym Names	CD271; p75NTR; TNFRSF16; p75 (NTR); Gp80-LNGFR; NGFR
Clonality	Monoclonal
Isotype	IgG1
Clone Number	2F1C2
Host	Mouse
Species Reactivity	Human
Form/Format	Ascitic fluid containing 0.03% sodium azide.
Molecular Weight	45
OMIM	M14764 mRNA
Immunogen	Purified recombinant fragment of human NGFR expressed in E Coli.
Applications Tested/Suitable for anti-NGFR antibody	Western Blot (WB), Immunocytochemistry (ICC), Flow Cytometry (FC/FACS)
Related Product Information for anti-NGFR antibody	Entrez Summary: 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. NGFR p75 plays a central role in the regulation of cell number by apoptosis in the developing CNS. During early development, activation of NGFR p75 by NGF induces apoptotic cell death in some neuronal cells, probably through activation of the sphingomyelinase/ceramide pathway, the ICE like proteases and the JNK pathway. In rat Schwann cells, NGF binding to NGFR p75 activates NF kappaB, possibly to modulate Schwann cell migration during nerve regeneration. CD271 has recently been described as being expressed in mesenchymal stem cells (bone marrow stromal cells).
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	MBS475973 is an antibody targeting NGFR. Also known as Anti-NGFR Mouse mAb. Reactive in Human. Host: Mouse.



Western Blot (WB) of anti-NGFR antibody
Western blot analysis using NGFR mouse mAb against NGFR-hIgGFc transfected HEK293 cell lysate.



Immunofluorescence (IF) of anti-NGFR antibody
Immunofluorescence analysis of EC cells using NGFR mouse mAb (green). Red



Flow Cytometry (FC/FACS) of anti-NGFR antibody
Flow cytometric analysis of EC cells using NGFR mouse mAb (green) and negative control (purple).

ADDITIONAL DETAILS

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

NCBI GI #	913470882
NCBI GeneID	4804
NCBI Accession #	AKU79244.1
UniProt Secondary Accession #	B2R961; B4E096
UniProt Related Accession #	P08138
NCBI Official Full Name	nerve growth factor receptor, partial
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; CD_antigen: CD271
Protein Family	Tumor necrosis factor receptor superfamily
UniProt Gene Name	NGFR

UniProt Synonym Gene Names	TNFRSF16; NGF receptor
NCBI Protein Information	tumor necrosis factor receptor superfamily member 16
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: 17q21.33 Cellular Component: cell surface; cytosol; endosome; extracellular region; integral to plasma membrane; neuron projection; nucleoplasm; nucleus; plasma membrane Molecular Function: nerve growth factor binding; protein binding; Rab GTPase binding; receptor activity; signal transducer activity; transmembrane receptor activity; tumor necrosis factor receptor activity; ubiquitin protein ligase binding Biological Process: axon guidance; caspase activation; circadian regulation of gene expression; glucose homeostasis; immune response; inflammatory response; intracellular protein transport; membrane protein intracellular domain proteolysis; negative regulation of apoptosis; negative regulation of axonogenesis; negative regulation of caspase activity; nerve growth factor receptor signaling pathway; positive regulation of apoptosis; positive regulation of axonogenesis; positive regulation of MAPKKK cascade; regulation of apoptosis; regulation of caspase activity; regulation of cell proliferation; response to lipopolysaccharide
Research Articles on NGFR	**1.** Results revealed that most of the p75NTR-positive cells were in a mitotically quiescent state, while the majority of the p75NTR-negative cells were actively proliferating in esophageal squamous cell carcinoma.
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