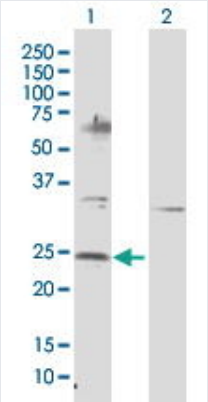
NT-4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NT-4, Polyclonal Antibody
Full Product Name	NT-4 (Neurotrophin 4, Neurotrophin-4, NT4, Neutrophic Factor 4, NTF4, Neurotrophin 4/5, NT-4/5, NTF4/5, Neurotrophin 5, Neurotrophin-5, NT5, NT-5
Product Gene Name	anti-NT-4 antibody
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 Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human NTF4.
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 stor assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, ce
Molecular Weight	22,427 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (49564397..49567124, complement). Location: 19q13.3
OMIM	162662
3D Structure	ModBase 3D Structure for P34130
Immunogen	Full length human NTF4, aa1-210 (NP_006170.1).
Immunogen Sequence	MLPLPSCSLPILLLFLLPSVPIESQPPPSTLPPFLAPEWDLLSPRVVLSRGAPAGPPLLFLLEAGAFRESAGAPANRSRRGVSETAPASRRGELAVCDAVSC
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-NT-4 antibody	Antibodies; Neurotrophins
Applications Tested/Suitable for anti-NT-4 antibody	Western Blot (WB)
Application Notes for anti-NT-4 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-NT-4 antibody	Neurotrophin-4 (NT-4/NT-5) is a potent neurotrophic factor that supports the growth and survivability of nerve and/or glial cells.
Other Notes	Small volumes of anti-NT-4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessa fee may apply.
Searchable Terms for NT-4 purchase	MBS6387638 is an antibody targeting NT-4. Also known as NT-4 (Neurotrophin 4, Neurotrophin-4, NT4, Neutrophic Factor 4, NTF4, Neurotrophin 4/5,



Western Blot (WB) of anti-NT-4 antibody
Western Blot analysis of NTF4 expression in transfected 293T cell line by NTF4 polyclonal antibody. Lane 1: NTF5 transfected lysate (22.4kD). Lane 2: Non-transfected lysate.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NT-4. It may not necessarily be applicable to this product.

NCBI GI #	5453808
NCBI GeneID	4909
NCBI Accession #	NP_006170.1
UniProt Primary Accession #	P34130
UniProt Secondary Accession #	Q6FH56
UniProt Related Accession #	P34130; AAB20549
GenBank Nucleotide #	NM_006179.3
NCBI Official Full Name	neurotrophin-4 preproprotein
NCBI Official Synonym Full Names	neurotrophin 4
NCBI Official Symbol	NTF4
NCBI Official Synonym Symbols	NT4; NT5; NT-4; NT-5; NTF5; GLC10; GLC1O; NT-4/5
UniProt Protein Name	Neurotrophin-4
UniProt Synonym Protein Names	Neurotrophin-5; NT-5; Neutrophic factor 4
UniProt Gene Name	NTF4
UniProt Synonym Gene Names	NTF5; NT-4; NT-5
UniProt Entry Name	NTF4_HUMAN
NCBI Protein Information	neurotrophin-4; neurotrophin-5; neutrophic factor 4; neurotrophic factor 4; neurotrophic factor 5; neurotrophin 5 (neurotrophin 4/5)

NCBI Summary for NT-4	This gene is a member of a family of neurotrophic factors, neurotrophins, that control survival and differentiation of mammalian neurons. The expression of this gene is ubiquitous and less influenced by environmental signals. While knock-outs of other neurotrophins including nerve growth factor, brain-derived neurotrophic factor, and neurotrophin 3 prove lethal during early postnatal development, NTF5-deficient mice only show minor cellular deficits and develop normally to adulthood. [provided by RefSeq, Jul 2008]
UniProt Comments for NT-4	NT-4/5: Target-derived survival factor for peripheral sensory sympathetic neurons. Defects in NTF4 may be associated with susceptibility to primary open angle glaucoma type 1O (GLC1O). A form of primary open angle glaucoma (POAG). POAG is characterized by a specific pattern of optic nerve and visual field defects. The angle of the anterior chamber of the eye is open, and usually the intraocular pressure is increased. The disease is asymptomatic until the late stages, by which time significant and irreversible optic nerve damage has already taken place. Belongs to the NGF-beta family. Protein type: Cytokine; Secreted; Secreted, signal peptide; Cell development/differentiation Chromosomal Location of Human Ortholog: 19q13.3 Cellular Component: endoplasmic reticulum lumen; cytoplasmic membrane-bound vesicle; extracellular region Molecular Function: neurotrophin p75 receptor binding; growth factor activity Biological Process: epidermis development; mechanoreceptor differentiation; cell-cell signaling; long-term memory; adult locomotory behavior; regulation of neuron differentiation; sensory organ boundary specification; ganglion mother cell fate determination; negative regulation of neuron apoptosis; neurite morphogenesis; transmembrane receptor protein tyrosine kinase signaling pathway Disease: Glaucoma 1, Open Angle, O
Research Articles on NT-4	**1.** The NTF4 variants p.Gly157Ala and p.Ala182Val have been shown to be functional mutations, occurring in 2 of a total of 720 Chinese primary open-angle glaucoma patients.
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