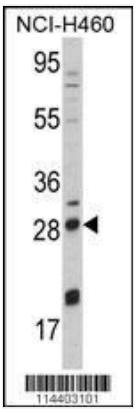
Nerve Growth Factor, Beta (NGFB) Antibody – Rabbit Polyclonal

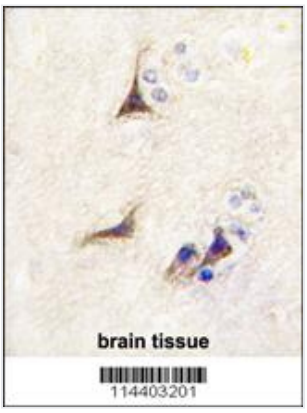
PRODUCT OVERVIEW

Product Name	Nerve Growth Factor, beta (NGFB), Polyclonal Antibody
Full Product Name	Nerve Growth Factor, beta (NGF, Beta Nerve Growth Factor, Beta Nerve Growth Factor Precursor, Beta NGF, HSAN5, Nerve Growth Factor beta, Nerve Growth Factor beta Polypeptide, Nerve Growth Factor beta Subunit, NGFB) (AP)
Product Gene Name	anti-NGFB antibody
Product Synonym Names	Nerve Growth Factor (beta Polypeptide); MGC161426; MGC161428
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 Alkaline Phosphatase.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human NGFB.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	Calculate MW: 26 kDa Observed MW: 17kDa/27kDa
OMIM	gene 608654
3D Structure	ModBase 3D Structure for P01138
Immunogen	Synthetic peptide selected from the center region of human NGFB (KLH).
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-NGFB antibody	Antibodies; Growth Factors; Cytokines
Applications Tested/Suitable for anti-NGFB antibody	Immunohistochemistry (IHC), ELISA (EIA), Western Blot (WB)
Application Notes for anti-NGFB antibody	IHC: 1:10-1:50 ELISA: 1:1,000 WB: 1:50-1:100 Applications are based on unconjugated antibody.
Related Product Information for anti-NGFB antibody	MBS6489758 is an antibody targeting NGFB. Also known as Nerve Growth Factor, beta (NGF, Beta Nerve Growth Factor, Beta Nerve Growth Factor Precursor, Beta NGF, HSAN5, Nerve Growth Factor beta, Nerve Growth Factor beta Polypeptide, Nerve Growth Factor beta Subunit, NGFB) (AP). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-NGFB antibody	1. Lang, U.E., Pharmacopsychiatry 41(5), 196-199 (2008). 2. Truzzi, F., J. Invest. Dermatol. 128(8), 2031-2040 (2008). 3. MacGrogan, D., J. Neurochem. 59(4), 1381-1391 (1992).

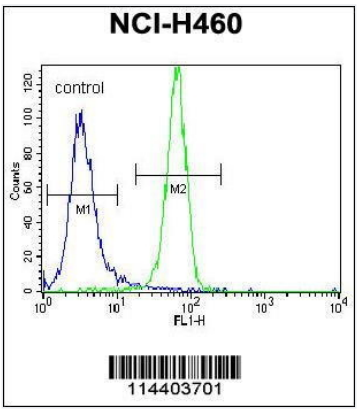
Other Notes	Small volumes of anti-NGFB antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



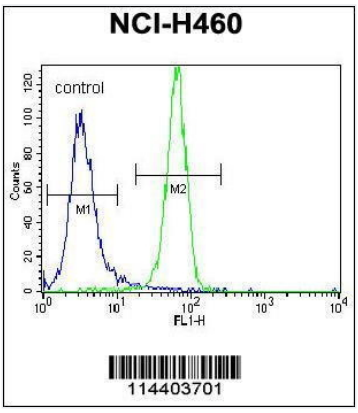
Western Blot (WB) of anti-NGFB antibody
Western blot analysis of NGFB Antibody (Center) in NCI-H460 cell line lysates (35ug/lane). NGFB (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-NGFB antibody
Formalin-fixed and paraffin-embedded human brain tissue reacted with NGFB antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-NGFB antibody
NGFB Antibody (Center) flow cytometric analysis of NCI-H460 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Immunofluorescence (IF) of anti-NGFB antibody
Confocal immunofluorescent analysis of NGFB Antibody (Center) with MDA-MB231 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).DAPI was used to stain the cell nuclear (blue).

ADDITIONAL DETAILS

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

NCBI GI #	90110037
NCBI GeneID	4803
NCBI Accession #	P01138.3
UniProt Primary Accession #	P01138
UniProt Secondary Accession #	Q6FHA0; Q96P60; Q9P2Q8; Q9UKL8; A1A4E5
UniProt Related Accession #	P01138
NCBI Official Full Name	Beta-nerve growth factor
NCBI Official Synonym Full Names	nerve growth factor (beta polypeptide)
NCBI Official Symbol	NGF
NCBI Official Synonym Symbols	NGFB; HSAN5; Beta-NGF

UniProt Protein Name	Beta-nerve growth factor
Protein Family	Beta-nerve growth factor
UniProt Gene Name	NGF
UniProt Synonym Gene Names	NGFB; Beta-NGF
UniProt Entry Name	NGF_HUMAN
NCBI Protein Information	beta-nerve growth factor; nerve growth factor, beta subunit
NCBI Summary for NGFB	This gene is a member of the NGF-beta family and encodes a secreted protein which homodimerizes and is incorporated into a larger complex. This protein has nerve growth stimulating activity and the complex is involved in the regulation of growth and the differentiation of sympathetic and certain sensory neurons. Mutations in this gene have been associated with hereditary sensory and autonomic neuropathy, type 5 (HSAN5), and dysregulation of this gene's expression is associated with allergic rhinitis. [provided by RefSeq, Jul 2008]
UniProt Comments for NGFB	NGF: Nerve growth factor is important for the development and maintenance of the sympathetic and sensory nervous systems. Extracellular ligand for the NTRK1 and NGFR receptors, activates cellular signaling cascades through those receptor tyrosine kinase to regulate neuronal proliferation, differentiation and survival. Homodimer. Belongs to the NGF-beta family. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 1p13.1 Cellular Component: extracellular space; Golgi lumen; cytoplasmic membrane-bound vesicle; extracellular region; endosome Molecular Function: metalloendopeptidase inhibitor activity; protein binding; nerve growth factor receptor binding; growth factor activity; receptor signaling protein activity Biological Process: response to nicotine; circadian rhythm; response to peptide hormone stimulus; nerve growth factor receptor signaling pathway; activation of MAPKK activity; positive regulation of apoptosis; adult locomotory behavior; regulation of neuron differentiation; positive regulation of axon extension; response to glucocorticoid stimulus; regulation of neurotransmitter secretion; response to lipopolysaccharide; regulation of caspase activity; sensory perception of pain; regulation of axonogenesis; negative regulation of cell cycle; nerve growth factor processing; response to radiation; cell-cell signaling; small GTPase mediated signal transduction; negative regulation of neuron apoptosis; response to electrical stimulus; inflammatory response; response to drug; positive regulation of neuron maturation; phosphoinositide-mediated signaling; positive regulation of protein amino acid autophosphorylation; positive regulation of nerve growth factor receptor signaling pathway; regulation of release of sequestered calcium ion into cytosol; memory; peripheral nervous system development; neuron apoptosis; induction of apoptosis via death domain receptors; response to mechanical stimulus; phospholipase C activation; response to ozone; Ras protein signal transduction; positive regulation of axonogenesis; positive regulation of transcription factor activity; neurite morphogenesis; transmembrane receptor protein tyrosine kinase signaling pathway; negative regulation of apoptosis Disease: Neuropathy, Hereditary Sensory And Autonomic, Type V
Research Articles on NGFB	**1.** TRPV1-immunoreactive nerve fibers and NGF have a role in inflammation in interstitial cystitis/bladder pain syndrome
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-ngfb-human-antibody/nerve-growth-factor-beta/6489758