

NGFB Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP11545b**Specification**

NGFB Antibody (C-term) Blocking peptide - Product InformationPrimary Accession [P01138](#)**NGFB Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 4803**Other Names**

Beta-nerve growth factor, Beta-NGF, NGF, NGFB

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

NGFB Antibody (C-term) Blocking peptide - Protein Information**Name** NGF**Synonyms** NGFB**Function**

Nerve growth factor is important for the development and maintenance of the sympathetic and sensory nervous systems (PubMed:14976160, PubMed:20978020). Extracellular ligand for the NTRK1 and NGFR receptors, activates cellular signaling cascades to regulate neuronal proliferation, differentiation and survival (PubMed:20978020) (Probable). The immature NGF precursor (proNGF) functions as a ligand for the heterodimeric receptor formed by SORCS2 and NGFR, and activates cellular signaling cascades that lead to inactivation of RAC1 and/or RAC2, reorganization of the actin cytoskeleton and neuronal growth cone collapse. In contrast to mature NGF, the precursor form (proNGF) promotes neuronal apoptosis (in vitro) (By similarity). Inhibits metalloproteinase-dependent proteolysis of platelet glycoprotein VI (PubMed:20164177). Binds lysophosphatidylinositol and lysophosphatidylserine between the two chains of the homodimer. The lipid-bound form promotes histamine release from mast cells, contrary to the lipid-free form (By similarity).

Cellular Location

Secreted. Endosome lumen {ECO:0000250|UniProtKB:P01139}. Note=ProNGF is endocytosed after binding to the cell surface receptor formed by SORT1 and NGFR {ECO:0000250|UniProtKB:P01139}

NGFB Antibody (C-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

NGFB Antibody (C-term) Blocking peptide - Images**NGFB Antibody (C-term) Blocking peptide - Background**

NGFB is a member of the NGF-beta family and 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].

NGFB Antibody (C-term) Blocking peptide - References

Li, C., et al. Clin. Chim. Acta 411 (19-20), 1482-1486 (2010) ; Houeland, G., et al. J. Neurosci. 30(39):13089-13094(2010) Shieh, K.R., et al. Neurogastroenterol. Motil. 22(9):971-977(2010) Schuurhof, A., et al. Pediatr. Pulmonol. 45(6):608-613(2010) Sornelli, F., et al. Mol. Vis. 16, 1439-1447 (2010) :