

**NGFB Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP53311****Specification**

---

**NGFB Antibody - Product Information**

Application	<b>WB</b>
Primary Accession	<a href="#">P01138</a>
Reactivity	<b>Human</b>
Host	<b>Rabbit</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>27 KDa</b>
Antigen Region	<b>151-200</b>

**NGFB Antibody - Additional Information****Gene ID** 4803**Other Names**

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

**Dilution**

WB~~ 1:1000

**Format**

Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**NGFB Antibody - 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](http://www.uniprot.org/citations/14976160), PubMed: [20978020](http://www.uniprot.org/citations/20978020)). Extracellular ligand for the NTRK1 and NGFR receptors, activates cellular signaling cascades to regulate neuronal proliferation, differentiation and survival (Probable) (PubMed: [20978020](http://www.uniprot.org/citations/20978020)). 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:<a href="http://www.uniprot.org/citations/20164177" target="\_blank">20164177</a>). 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

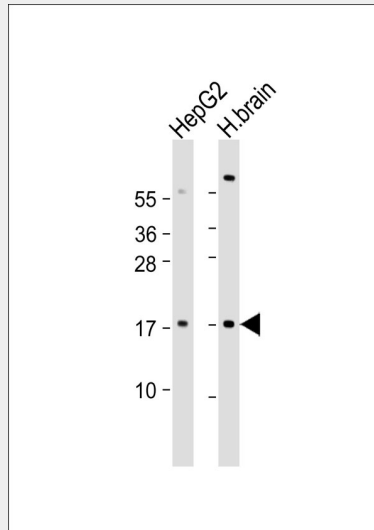
Secreted. Endosome lumen {ECO:0000250|UniProtKB:P01139}. Note=ProNGF is endocytosed after binding to the cell surface receptor formed by SORT1 and NGFR {ECO:0000250|UniProtKB:P01139}

### NGFB Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### NGFB Antibody - Images



All lanes : Anti-NGFB Antibody at 1:1000 dilution Lane 1: HepG2 whole cell lysate Lane 2: human brain lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 27 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

### NGFB Antibody - Background

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.

**NGFB Antibody - References**

Ullrich A.,et al.Nature 303:821-825(1983).

Ullrich A.,et al.Cold Spring Harb. Symp. Quant. Biol. 48:435-442(1983).

Borsani G.,et al.Nucleic Acids Res. 18:4020-4020(1990).

Tong Y.,et al.Zhongguo Ying Yong Sheng Li Xue Za Zhi 13:316-318(1997).

Kitano T.,et al.Mol. Biol. Evol. 21:936-944(2004).