

Rabbit Anti-NGFB antibody

SL0067R

Product Name NGFB

Chinese Name 神经生长因子 β 抗体

Alias NGF; Beta nerve growth factor; NGF-beta; Beta nerve growth factor precursor; Beta NGF; HSAN5; MGC161426; MGC161428; Nerve growth factor beta; Nerve growth factor beta polypeptide; Nerve growth factor beta subunit; NGF B; NID67; NGF beta; NGF-B; NGF_HUMAN. NGF- β ; NGF β ; NGF β ; β NGF; β -NGF; .

Research Area Developmental biology Neurobiology cell factor

Immunogen Species Rabbit

Clonality Polyclonal

React Species Human,Mouse,Rat(predicted:Dog,Pig,Cow,Sheep)
ELISA=1:5000-10000 IHC-P=1:100-500 IHC-F=1:100-500 ICC=1:100 IF=1:100-500
(Paraffin sections need antigen repair)

Applications WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 13/32kDa

Cellular localization Secretory protein

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human NGF beta: 151-220/241

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution Human,Mouse,Rat(predicted:Dog,Pig,Cow,Sheep)1M TBS(pH7.4) with 1% BSA,
Human,Mouse,Rat(predicted:Dog,Pig,Cow,Sheep)3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.

PubMed

[PubMed](#)

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]

Function:

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.

Subunit:

Homodimer.

Subcellular Location:

Secreted.

**Product
Detail**

DISEASE:

Defects in NGF are the cause of hereditary sensory and autonomic neuropathy type 5 (HSAN5) [MIM:608654]. The hereditary sensory and autonomic neuropathies are a genetically and clinically heterogeneous group of disorders characterized by degeneration of dorsal root and autonomic ganglion cells, and by sensory and/or autonomic abnormalities. HSAN5 patients manifest loss of pain perception and impaired temperature sensitivity, ulcers, and in some cases self-mutilation. The autonomic involvement is variable.

Similarity:

Belongs to the NGF-beta family.

SWISS:

P01138

Gene ID:

4803

Database links:

[Entrez Gene: 4803](#) Human

[Entrez Gene: 18049](#) Mouse

[Entrez Gene: 310738](#) Rat

[Omim: 162030](#) Human

[SwissProt: P01138](#) Human

[SwissProt: P01139](#) Mouse

[SwissProt: P25427](#) Rat

[Unigene: 2561](#) Human

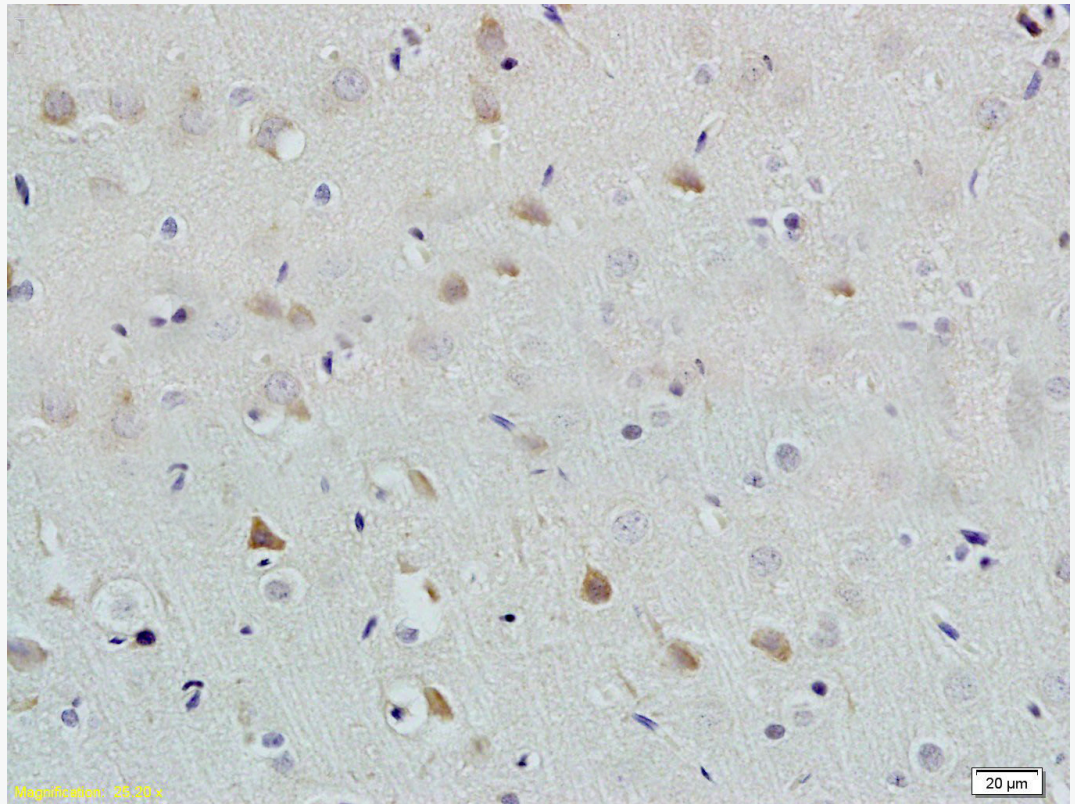
[Unigene: 1259](#) Mouse

[Unigene: 22168](#) Rat

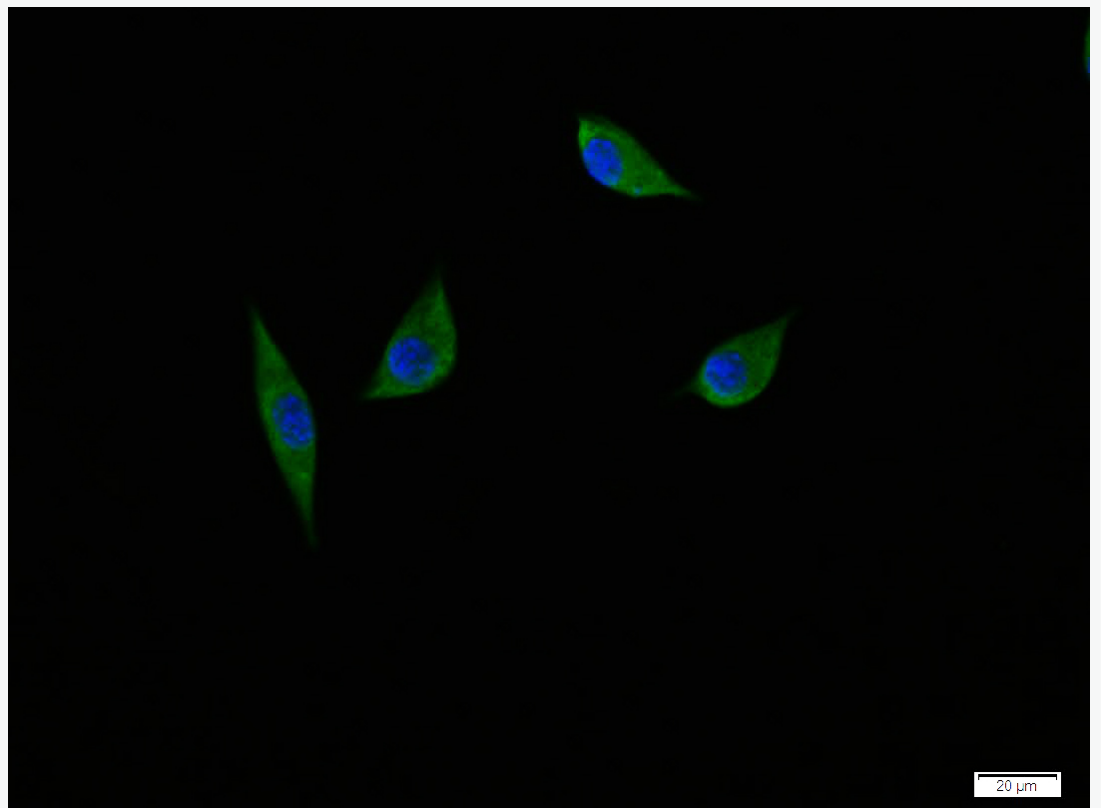
神经生长因子- β (NGF- β)属于一种对神经元的生长、分化、延长存活期有促进作用的神经生长因子家族。此抗体识别分子量为 29kDa 的 NGF 蛋白。

神经生长因子(Nerve Growth Factor,NGF)是最早被发现、兼有神经元营养和促突触生长双重生物学功能的一种细胞调节因子.它对中枢和周围神经元的发育、分化、生长、再生和功能特性的表达均具有重要的调控作用,可促进受损神经再生、免受继发性损害、减少细胞死亡、支持神经元存活等功能.

**Product
Picture**



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer
(Human,Mouse,Rat(predicted:Dog,Pig,Cow,Sheep)1M, pH 6.0), Boiling bathing
for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min;
Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-NGF-beta Polyclonal Antibody, Unconjugated(SL0067R) 1:200,
overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and
DAB(C-0010) staining



SH-SY5Y cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (NGFB) polyclonal Antibody, Unconjugated (SL0067R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.