



Rabbit Anti-NGFB antibody

SL10806R

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; NGFB; NID67; NGF beta; NGF-B; NGF_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Rat,Dog,Pig,Cow,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	13kDa
Cellular localization:	Secretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	Recombined human NGF beta full length protein:
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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.

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

[Omin: 162030](#)Human

[SwissProt: P01138](#)Human

[SwissProt: P01139](#)Mouse

[SwissProt: P25427](#)Rat

[Unigene: 2561](#)Human

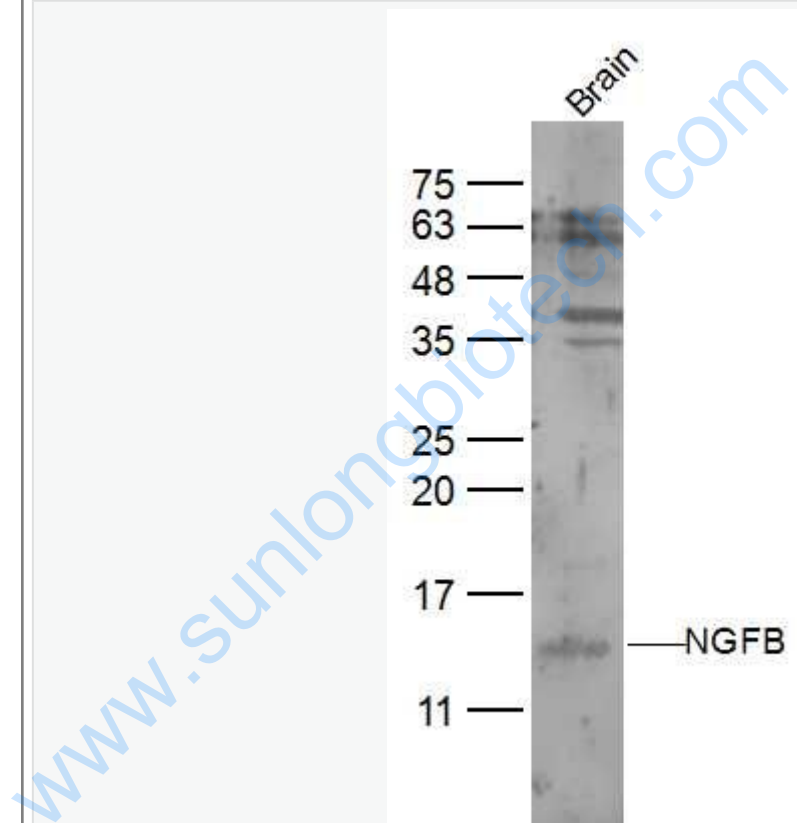
[Unigene: 1259](#)Mouse

[Unigene: 22168](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

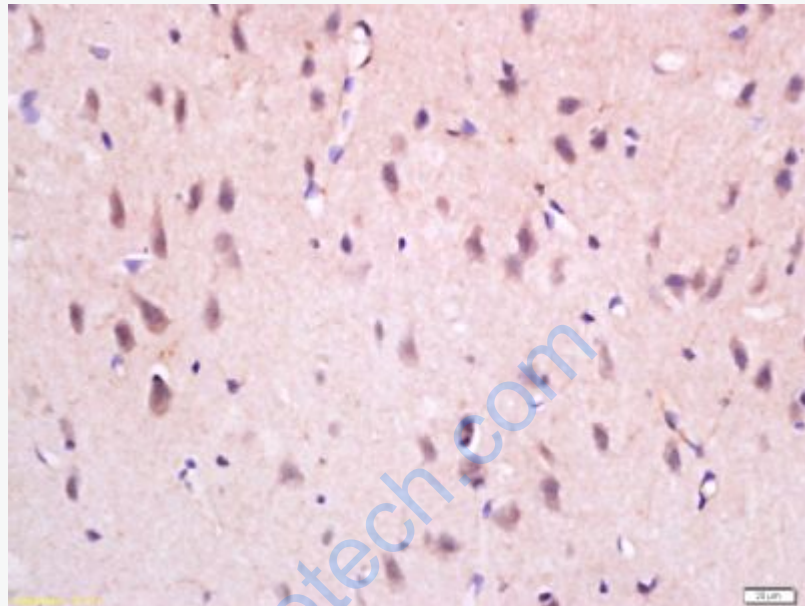
Brain (Rat) Lysate at 40 ug

Primary: Anti-NGFB (SL10806R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 13 kD

Observed band size: 15 kD



Tissue/cell: Rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, 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-NGFB Polyclonal Antibody, Unconjugated(SL10806R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining