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Anti-NGF Antibody (Internal)

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18478

Product Information

Application	WB, IHC-P
Primary Accession	P01138
Predicted	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	26959
Concentration (mg/ml)	1 mg/ml

Additional Information

Gene ID	4803
Alias Symbol	NGF
Other Names	NGF, Beta-nerve growth factor, ProNGF, Beta-NGF, HSAN5, NGFB
Target/Specificity	Recognizes endogenous levels of pro-NGF beta protein.
Reconstitution & Storage	Immunoaffinity purified
Precautions	Anti-NGF Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

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 (Probable) (PubMed: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:20164177). Binds lysophosphatidylinositol and lysophosphatidylserine between the two chains of the homodimer. The

	lipid-bound form promotes histamine relase 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}