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Anti-NGF beta Antibody

Catalog # AP53311

Product Information

Application	WB
Primary Accession	P01138
Reactivity	Human, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	26959

Additional Information

Gene ID	4803
Other Names	NGFB; Beta-nerve growth factor; Beta-NGF
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human NGF beta. The exact sequence is proprietary.
Dilution	WB~~ 1:1000
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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

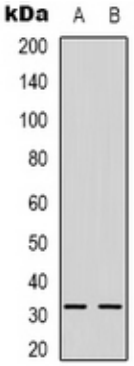
lipid-free form (By similarity).

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}

References

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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).

Images



Western blot analysis of NGF beta expression in Raji (A), HepG2 (B) whole cell lysates. (Predicted band size: 26 kD; Observed band size: 27 kD)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.