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PRODUCT DATASHEET

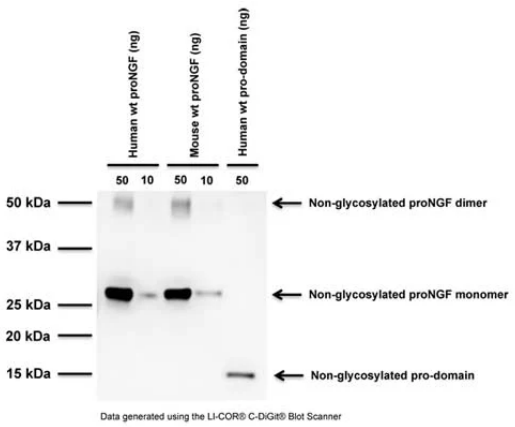
Anti-pro-Nerve growth factor (proNGF) Antibody

Product Details

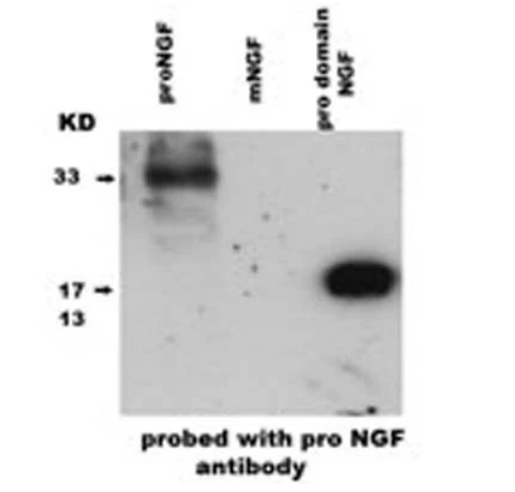
Available Variants	100 µL (SKU:S-080-100)
Conjugate	Unconjugated
Isotype	Mixed
Host Species	Sheep
Format	Whole serum
Physical State	Lyophilized
Applications	ELISA, IHC, Neutralize, WB
Species Reactivity	Human, Mouse, Rat
Immunogen	The recombinant prodomain fragment of human nerve growth factor
Specificity	The specificity of this antibody has been confirmed by WB. It does NOT crossreact with proBDNF, proNT-3 or mature NGF. Confirmed to react with purified human proNGF and crossreact with mouse and rat proNGF.
Storage	Spin vial briefly before opening. Reconstitute in 100 µL sterile-filtered, ultrapure water. Centrifuge to remove any insoluble material. Maintain lyophilized antibody at 2-8°C for up to 12 months after date of receipt. After reconstitution keep undiluted aliquots at -20°C for up to 6 months for higher stability or at 2-8°C with an appropriate antibacterial agent. Glycerol (1:1) may be added for additional stability. Avoid repetitive freeze/thaw cycles.
UniProt ID	P01138 UniProt Summary: 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 to regulate neuronal proliferation, differentiation and survival (Probable). 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). Inhibits metalloproteinase-dependent proteolysis of platelet glycoprotein VI. 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.
Country of Origin	United States
Shipping	25°C (ambient)
Expiration	12 months after date of receipt (unopened vial).
Usage Statement	For research use only.
NCBI Gene ID	4803

Product Images



Western blot of proNGF proteins produced in E.Coli. S-080-100 detects the human and mouse form of proNGF as well as the pro-domain peptide. SDS-PAGE: denatured and reduced; Transfer: Tris-Glycine buffer; Membrane: nitrocellulose (0.45 um); Blocking: 5% skim milk in TBST, 2 hours at RT; Primary antibody: overnight at 4°C (1:1000 dilution); Secondary antibody: anti-sheep-HRP (1/3000), 2 hours at RT; Detection: Chemiluminiscence.



The sheep anti-proNGF antibodies recognize recombinant proNGF, the prodomain of NGF and but not mouse mature NGF (50 ng in each lane).



Created on 19. November 2026 | All information without guarantee