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PRODUCT DATASHEET

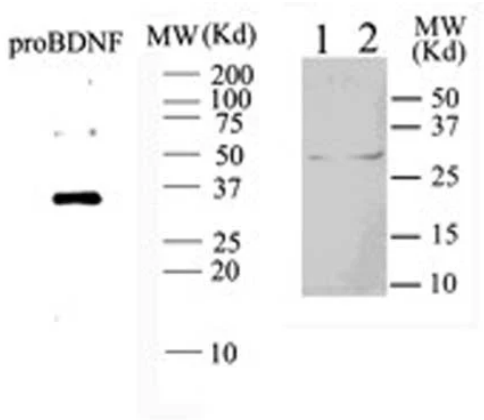
Anti-pro-Brain-derived neurotrophic factor (proBDNF) Antibody

Product Details

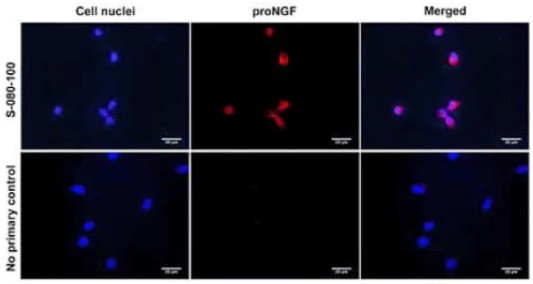
Available Variants	100 µL (SKU:S-079-100)
Conjugate	Unconjugated
Isotype	Mixed
Host Species	Sheep
Format	Whole serum
Physical State	Lyophilized
Applications	ELISA, Neutralize, WB
Species Reactivity	Human, Mouse, Rat
Immunogen	The recombinant prodomain fragment of human brain-derived neurotrophic factor
Specificity	Confirmed to react with purified human proBDNF, crossreact with mouse and rat proBDNF Cross reactivity with other species than human, mouse and rat has not yet been tested.
Storage	Spin vial briefly before opening. Reconstitute in 100 µL sterile-filtered, ultrapure water. Centrifuge to remove any insoluble material. After reconstitution keep aliquots at -20°C for a higher stability, and at 2-8°C with an appropriate antibacterial agent. Glycerol (1:1) may be added for an additional stability. Avoid repetitive freeze/thaw cycles.
UniProt ID	P23560 UniProt Summary: Important signaling molecule that activates signaling cascades downstream of NTRK2. During development, promotes the survival and differentiation of selected neuronal populations of the peripheral and central nervous systems. Participates in axonal growth, pathfinding and in the modulation of dendritic growth and morphology. Major regulator of synaptic transmission and plasticity at adult synapses in many regions of the CNS. The versatility of BDNF is emphasized by its contribution to a range of adaptive

	neuronal responses including long-term potentiation (LTP), long-term depression (LTD), certain forms of short-term synaptic plasticity, as well as homeostatic regulation of intrinsic neuronal excitability.
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	627

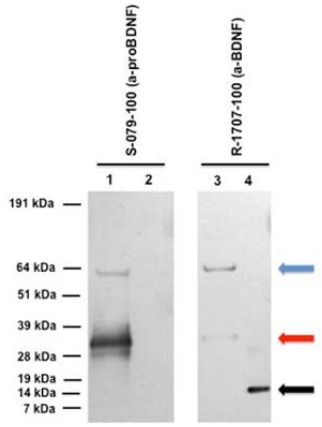
Product Images



Western blot analysis of proBDNF on DRG homogenate. lane 1: brain; lane 2: DRG. The antibody recognises monomer and dimer of the recombinant proBDNF.



Immunofluorescence analysis of proBDNF expression in human SHSY-5Y cells. Fixed (4% formaldehyde), permeabilized, and blocked (10% normal horse serum, 0.1% Triton X100) SHSY-5Y cells were incubated with proBDNF antibody S-079-100 (1:1000, red) for 1 hour. Primary antibody binding was visualized with a secondary donkey anti-sheep-PE antibody (1:100, 1 hour incubation). Cell nuclei were stained with Hoechst dye (blue). BDNF-IR is observed in the perinuclear cytoplasm. Magnification: 100x.



Separation and detection of proBDNF in conditioned 293 cell culture medium (Lanes 1 and 3, 50 ng/lane) and purified mature BDNF (Lanes 2 and 4, 50 ng/lane) by reduced SDS-PAGE and western blotting. Anti-proBDNF sheep antibody S-079-100 (1/1000) detects 2 bands (Lane 1) with the apparent molecular weight of ≈ 32 kDa (red arrow) and ≈ 64 kDa (blue arrow) corresponding to glycosylated proBDNF monomer and dimer, respectively. S-079-100 is specific for proBDNF and does not recognize mature BDNF (Lane 2). Rabbit anti-BDNF antibody R-1707-100 (0.2 µg/mL) is a superb antibody for western blotting. It detects mature BDNF (≈ 14 kDa, Lane 4, black arrow) and shows lower affinity for pro-BDNF monomer (Lane 3, red arrow) and proBDNF dimer (Lane 3, blue arrow).

Created on 19. November 2026 | All information without guarantee