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PRODUCT DATASHEET

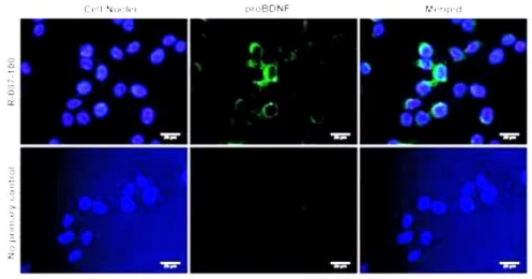
Anti-pro-Brain-derived neurotrophic factor (proBDNF) Antibody

Product Details

Available Variants	100 µL (SKU:R-087-100)
Conjugate	Unconjugated
Isotype	Mixed
Host Species	Rabbit
Format	Whole serum
Physical State	Lyophilized
Applications	IHC, WB
Dilution Ranges	WB: 1:1000-1:5000 IHC: 1:1000-1:5000 ICC: 1:500-1:2000
Species Reactivity	Human, Mouse, Rat
Immunogen	A synthetic peptide (C-ELLDEDQKVRPNEE) as a part of human BDNF precursor protein (aa: 69-82) conjugated to KLH has been used as the immunogen.
Specificity	Used in Western blot, this antiserum detects a 35 kDa band corresponding to the molecular weight of proBDNF. No cross reactivity with other proneurotrophins was detected. This antiserum is known to react with human, mouse and rat proBDNF and also expected to recognize other mammalian proBDNF.
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



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 R-087-100 (1:1000, green) for 1 hour. Primary antibody binding was visualized with a secondary donkey anti-rabbit-CF488A antibody (4 µg/mL, 1 hour incubation). Cell nuclei were stained with Hoechst dye (blue). BDNF-IR is observed in the perinuclear cytoplasm. Magnification: 100x.