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PRODUCT DATASHEET

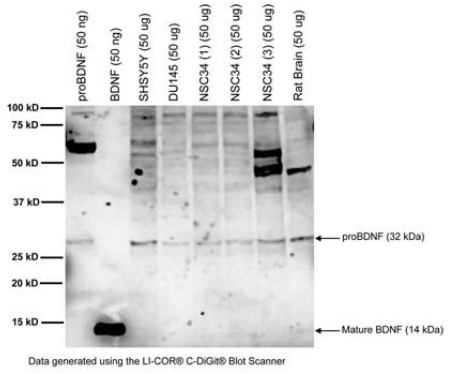
Anti-Brain-derived neurotrophic factor (BDNF) Antibody

Product Details

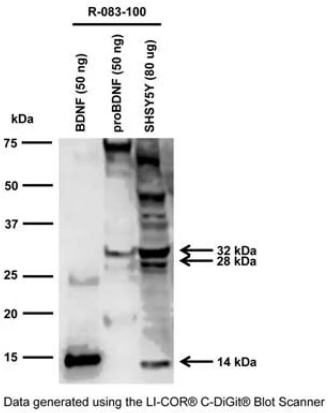
Available Variants	500 µg (SKU:R-066-500)
Conjugate	Unconjugated
Isotype	IgG
Host Species	Rabbit
Format	IgG
Physical State	Lyophilized
Buffer	Lyophilized from PBS, pH 7.4, without preservatives.
Production Notes	Protein G purified IgG
Applications	ELISA, IHC, WB
Dilution Ranges	WB: 1-10 µg/mL IHC: 1-10 µg/mL ELISA: 1-10 µg/mL
Species Reactivity	Human, Mouse, Rat
Immunogen	A synthetic peptide (HSDPARRGEL) as a part of human BDNF protein (aa: 129-138) conjugated to KLH has been used as the immunogen. The BDNF protein sequence is highly conserved amongst mammalian species.
Specificity	Less than 0.1% cross reactivity with mouse NGF, recombinant human NT3 and NT4/5 has been recorded by dot blot analysis. This antiserum is known to recognize rat, human and human BDNF, and is expected to react with BDNF from other species due to amino acid sequence homology.
Storage	Spin vial briefly before opening. Reconstitute in 500 µL sterile-filtered ultrapure water, pH 7.2-7.6. 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

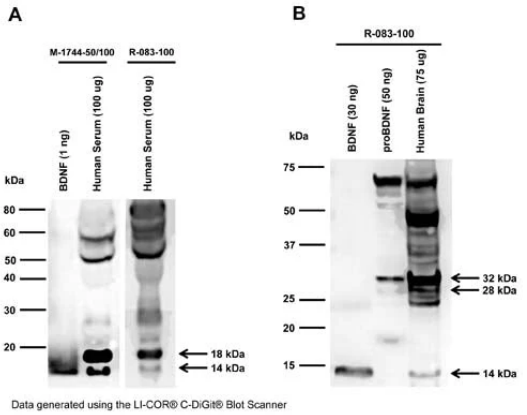
Product Images



Western blot analysis of BDNF expression in cell lysates and brain homogenate. Polyclonal rabbit BDNF antibody to BDNF (129-138) detects proBDNF at 32 kDa in samples. Additional uncharacterized bands are observed at higher molecular weights. Western Blotting Method: SDS-PAGE: denaturing and reducing, 12% Bis-Tris gel; Transfer: Tris-Glycine buffer, semi-dry transfer; Membrane: nitrocellulose (0.22 um); Blocking: 5% skim milk in TBST, 1 hour at RT; Primary antibody: 10 µg/mL, overnight at 4C; Secondary antibody: anti-rabbit-HRP (1/5000), 1 hour at RT; Detection: Chemiluminiscence



Western blot analysis of BDNF expression in SH-SY5Y cell lysate. Polyclonal rabbit BDNF antibody to BDNF (129-138; here whole serum antibody R-083-100 at 1:1000 dilution is shown) detects monomeric BDNF at 14 kDa and monomeric proBDNF at 32 kDa. An additional 28 kDa band is prominent which might relate to BDNF dimer or truncated BDNF isoform (Tongiorgi *et al.*, 2012). Western Blotting Method: SDS-PAGE: denaturing and reducing, 12% Bis-Tris gel; Transfer: Tris-Glycine buffer, semi-dry transfer; Membrane: nitrocellulose (0.22 um); Blocking: 5% skim milk in TBST, 1 hour at RT; Primary antibody: overnight at 4C; Secondary antibody: anti-rabbit-HRP (1/6000), 2 hours at RT; Detection: Chemiluminiscence.



Western blot analysis of BDNF expression in human serum (A) and human brain (B). Polyclonal rabbit BDNF antibody to BDNF (129-138; here whole serum antibody R-083-100 at 1:1000 dilution is shown) detects monomeric BDNF at 14 kDa in both samples, as well as monomeric proBDNF at 32 kDa in human brain (B). In addition, a 18 kDa BDNF isoform is detected in human serum (A), confirmed with a monoclonal mouse antibody to rhBDNF, Clone 4C8 (M-1744-50/100, 1 µg/mL). A 18 kDa BDNF-isoform has previously been detected with other BDNF antibodies (Tongiorgi *et al.*, 2012 ; Silhol *et al.*, 2007). In human brain (B), a 28 kDa band is prominent which might relate to BDNF dimer or truncated BDNF isoform (Tongiorgi *et al.*, 2012). **Western Blotting Method:** SDS-PAGE: denaturing and reducing, 12% Bis-Tris gel; Transfer: Tris-Glycine buffer, semi-dry transfer; Membrane: nitrocellulose (0.22 um); Blocking: 5% skim milk in TBST, 1 hour at RT; Primary antibody: overnight at 4C; Secondary antibody: anti-mouse-HRP or anti-rabbit-HRP (1/6000), 2 hours at RT; Detection: Chemiluminiscence.

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