

Anti-Brain-derived neurotrophic factor (BDNF) Antibody

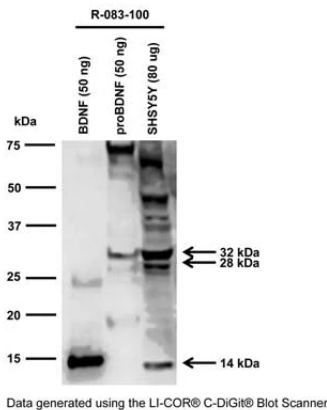


Product Details

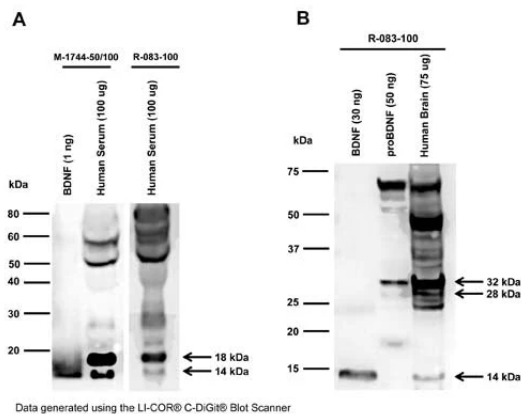
Available Variants	100 µL (SKU:R-083-100)
Conjugate	Unconjugated
Isotype	Mixed
Host Species	Rabbit
Format	Whole serum
Physical State	Lyophilized
Applications	ELISA, IHC, WB
Dilution Ranges	ELISA: 1:1000-1:5000 (detection only)
Species Reactivity	Human, Mouse, Rat
Immunogen	A synthetic peptide (HSDPARRGEL) 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 primates.
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, mouse and human BDNF, and is expected to react with BDNF from other species due to amino acid sequence homology.
Molecular Weight	14, 18, 28, 32 kDa (see application details)
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
Country of Origin	United States

Shipping	25°C (ambient)
Expiration	12 months after date of receipt (unopened vial).
Usage Statement	For research use only.

Product Images



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 μm); Blocking: 5% skim milk in TBST, 1 hour at RT; Primary antibody: overnight at 4°C; 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 μm); Blocking: 5% skim milk in TBST, 1 hour at RT; Primary antibody: overnight at 4°C; Secondary antibody: anti-mouse-HRP or anti-rabbit-HRP (1/6000), 2 hours at RT; Detection: Chemiluminiscence.



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