

Anti-Brain-derived neurotrophic factor (BDNF) Antibody



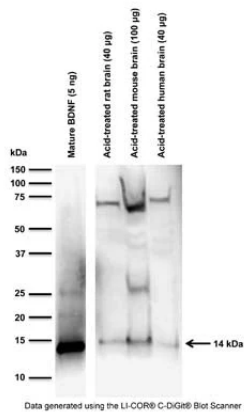
Product Details

Available Variants	2 x 50 µg (SKU:M-1744-100) 50 µg (SKU:M-1744-50)
Conjugate	Unconjugated
Isotype	IgG
Clone	4C8
Host Species	Mouse
Format	IgG
Physical State	Lyophilized
Buffer	Lyophilized from a solution containing PBS pH 7.4, 0.1% trehalose, with 0.1% sodium azide.
Production Notes	Protein G purified mouse IgG.
Applications	ELISA, WB
Dilution Ranges	WB: 0.2-2 µg/mL IHC: 1-4 µg/mL ICC: 1-4 µg/mL ELISA: 50-100 ng/mL
Species Reactivity	Human, Mouse, Rat
Immunogen	Recombinant human mature BDNF expressed in E.coli
Specificity	Detects human, mouse, rat, guinea pig BDNF. Expected to detect BDNF from other species due to sequence homology.
Molecular Weight	14 kDa (see application notes)
Storage	Spin vial briefly before opening. Reconstitute each vial with 50 µL sterile-filtered, ultrapure water to obtain a concentration of 1 mg/mL. Centrifuge to remove any insoluble material. Store lyophilized antibody at -20°C to -80°C

protected from moisture. After reconstitution divide antibody into useful aliquots and keep aliquots at -20°C to -80°C for a higher stability. Working aliquots can be kept at 2-8°C for up to 1 month. Avoid repetitive freeze/thaw cycles.

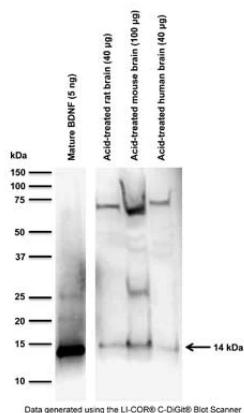
UniProt ID	P23560
Country of Origin	United States
Shipping	25°C (ambient)
Expiration	12 months after date of receipt (unopened vial).
Usage Statement	For research use only.

Product Images



Western blot analysis of BDNF expression in acid-treated rodent and human brain samples. Brain samples were acid-treated at pH 4 (refer to References for a detailed extraction method protocol). M-1744-50/100 (1 µg/mL) detects BDNF monomer at 14 kDa. Additional higher MW bands are not characterized, but may be related to the cross-reaction of the secondary anti-mouse-HRP antibody with endogenous, reduced IgG present in samples, in particular mouse tissue.

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 (1/6000), 2 hours at RT; Detection: Chemiluminescence.



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