

Anti-Brain-derived neurotrophic factor (BDNF) Antibody

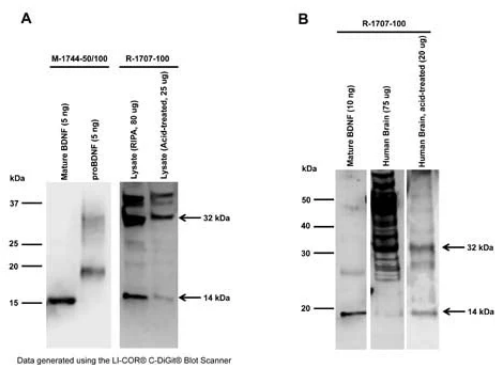


Product Details

Available Variants	100 µg (SKU:R-1707-100)
Conjugate	Unconjugated
Isotype	IgG
Host Species	Rabbit
Format	Affinity-purified
Physical State	Lyophilized
Buffer	Lyophilized from a solution containing PBS pH 7.4, 3% trehalose, with 0.05% sodium azide.
Production Notes	Affinity purified on antigen column.
Applications	ELISA, Flow, WB
Dilution Ranges	WB: 0.2-1 µg/mL
Species Reactivity	Human
Immunogen	Antibody was raised against a GST-tagged rhBDNF fusion protein and expressed in and purified from E. coli.
Specificity	Human, rat and mouse BDNF. Expected to detect BDNF from other species due to sequence homology. No cross-reactivity with other neurotrophins.
Molecular Weight	14 kDa, 32 kDa (See application details.)
Storage	Spin vial briefly before opening. Reconstitute vial with 100 µL sterile-filtered, ultrapure water to obtain a concentration of 1 mg/mL. Centrifuge to remove any insoluble material. Store lyophilized antibody at 2-8°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

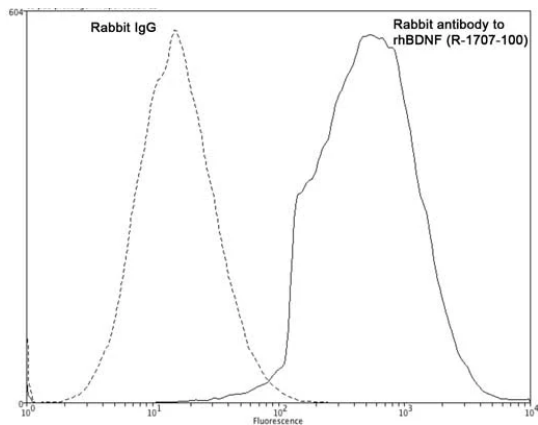
Country of Origin	United States
Shipping	25°C (ambient)
Expiration	12 months after date of receipt (unopened vial).
Usage Statement	For research use only.

Product Images



Western blot analysis of BDNF expression in human SH-SY5Y cell lysates (A) and human brain (B). Polyclonal rhBDNF antibody R-1707-100 (1 µg/mL) detects monomeric BDNF at 14 kDa, and monomeric proBDNF at 32 kDa in lysates prepared either in RIPA buffer or in acid-extraction buffer (A). Control antibody M-1744-50/100 (1 µg/mL) confirms detection of mature BDNF (Lane 1) and proBDNF (Lane 2) using BDNF and proBDNF proteins. A second band at 18 kDa is observed in the proBDNF standard, likely to represent a proBDNF degradation product. In human brain (B), R-1707-100 detects mature BDNF (14 kDa) and proBDNF (32 kDa) in both preparations (Tris-buffer and acid-treated). Acid-treated brain demonstrates lower background staining and gives a stronger BDNF signal.

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: Chemiluminescence.



Analysis of BDNF expression in rat C6 cells by **Flow Cytometry**. Fixing and permeabilization of cells: Absolute methanol (10 minutes in ice) and 0.1% Tween-20 in PBS, Blocking: 200 µg/mL sheep IgG, Primary antibody: Rabbit polyclonal antibody to rhBDNF (cat # R-1707-100, 2 µg per ~10⁶ cells) for 30 minutes at room temperature, Secondary antibody: Goat anti-rabbit-PE labeled secondary antibody (1:100 dilution), 20 minutes in dark at room temperature. Negative control: Normal rabbit IgG. Data and results were generated using Orflo Moxiflow™ instrument and protocols.

Product Page URL: www.antibodiesinc.com/products/anti-brain-derived-neurotrophic-factor-bdnf-antibody-r-1707-100



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