

ABfinity™ BDNF Recombinant Rabbit Oligoclonal Antibody

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Rev. 1.00

Catalog Number: 710306

Store at 2° to 8°C (short-term), or -20°C (long-term)

Clonality: Oligoclonal
Concentration: 0.5 mg/mL
Quantity: 100 µg
Volume: 200 µL

Host/Class: Rabbit IgG
Reactivity: Human BDNF
Predicted Reactivity: Human

Product Description

BDNF (brain derived neurotrophic factor) is a member of the nerve growth factor family, and a prevalent growth factor of the central nervous system. BDNF is important for neuronal plasticity and survival, and maintenance of specific neuronal populations like striatal neurons. It is also involved in long-term learning and memory formation. BDNF is expressed in a glycosylated 28 kDa form containing a prodomain required for trafficking. Only after secretion is the propeptide removed by plasmin present in blood serum. BDNF has distinct isoforms derived from multiple transcript variants.

Product Specifications

Immunogen: Recombinant protein corresponding to amino acids 129–247 of human BDNF
Alternate Names: Brain-derived neurotrophic factor, MGC34632
Apparent MW: ~28 kDa
Gene ID: 627
Protein Accession No.: P23560
Sequence Identity: Human
Sequence Homology: Monkey, Rat, Mouse, Rabbit
Clone/PAD: 19HCLC
Lot: See product label

Product Applications

Application	Species	Test Material	Concentration
Western blotting	Mouse, Human	Mouse kidney, U87MG cells	1–3 µg/mL
Indirect ELISA	Human	Recombinant protein	1.5 × 10 ⁻⁴ to 3 µg/mL

Stability

When stored as instructed, expires one year from date of receipt unless otherwise indicated on product label.

Storage and Handling

Store the antibody at 2° to 8°C for up to 1 month, -20°C for long storage. Avoid repeated freezing and thawing.

Storage Buffer

Phosphate buffered saline (PBS) with 0.09% sodium azide.

Caution: Sodium azide is an extremely toxic and dangerous compound particularly when combined with acids or metals. Properly dispose of solutions containing sodium azide.

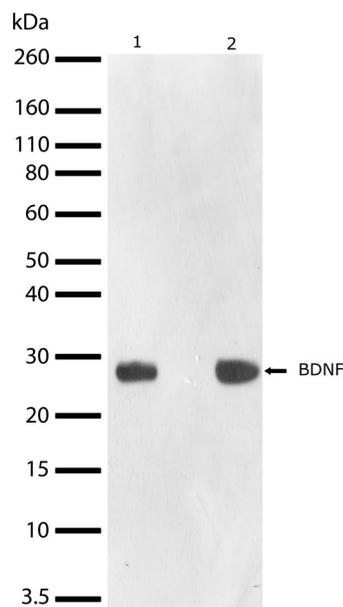


Figure 1 Western blot analysis of ABfinity™ BDNF Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710306).

Western blot analysis was performed on U87MG lysates (lane 1), and mouse kidney lysate (lane 2). Endogenous levels of BDNF was detected at ~28 kDa using ABfinity™ BDNF Recombinant Rabbit Oligoclonal Antibody at a concentration of 2 µg/mL. The blot was developed using chemiluminescence (ECL) method.

For research use only. Not for human or animal therapeutic or diagnostic use.

Manufacturing Site • 7335 Executive Way • Frederick • MD 21704 • E-mail: techsupport@lifetech.com

Product Documentation

To obtain a Certificate of Analysis or Safety Data Sheets (SDSs), visit www.lifetechnologies.com/support.

Related Products

Product Name	Quantity	Catalog no.
iBlot® Dry Blotting System	1 unit	IB1001
WesternBreeze® Chromogenic Kit Anti-Rabbit	1 kit	WB7105
WesternBreeze® Chemiluminescent Kit, Anti-Rabbit	1 kit	WB7106
Goat anti-mouse (H+L), HRP conj.	1 mg	G21040
Goat anti-rabbit (H+L), HRP conj.	1 mg	G21234
Goat anti-mouse (H+L), AP conj.	1 mg	G21060
Goat anti-rabbit (H+L), AP conj.	1 mg	G21079
Nitrocellulose, 0.2 µm	20/pack	LC2000

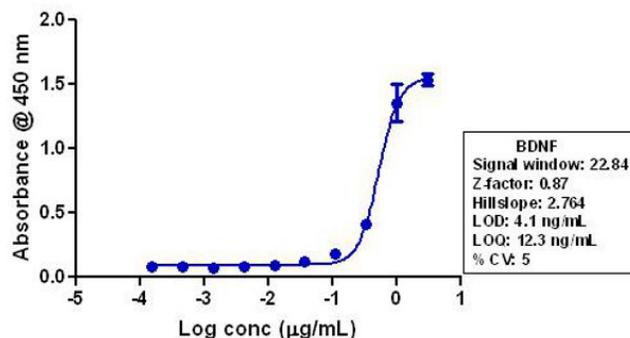


Figure 2 Indirect ELISA of ABfinity™ BDNF Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710306).

Indirect ELISA was performed using various dilutions of ABfinity™ BDNF Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710306) to detect BDNF recombinant protein coated onto the plate. A non-linear regression analysis was performed (4 PL) and LOD and LOQ for the antibody was determined.

Explanation of symbols

Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		<i>In vitro</i> diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

Limited Product Warranty

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