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Datasheet for ABIN542616

## anti-BDNF antibody

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### Overview

Quantity:	500 µg
Target:	BDNF
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BDNF antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunoassay (IA)

### Product Details

Purpose:	Rabbit polyclonal antibody raised against recombinant BDNF.
Immunogen:	Recombinant protein corresponding to human BDNF.
Isotype:	IgG
Specificity:	This antibody has less than 0.1 % cross-reactivity against NGF, recombinant NT3 and NT4 by dot blot.
Cross-Reactivity:	Human, Mouse, Rat

### Target Details

Target:	BDNF
Alternative Name:	BDNF ( <a href="#">BDNF Products</a> )
Gene ID:	627

## Target Details

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Pathways: [RTK Signaling](#), [Synaptic Membrane](#), [Feeding Behaviour](#), [Dicarboxylic Acid Transport](#), [Regulation of long-term Neuronal Synaptic Plasticity](#)

## Application Details

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Application Notes: Immunohistochemistry (1-10 µg/mL)  
ELISA (0.1 µg/mL)  
Inhibition Assay (1-10 µg/mL)  
Western Blot (1-10 µg/mL)  
The optimal working dilution should be determined by the end user.

Restrictions: For Research Use only

## Handling

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Format: Lyophilized

Buffer: Reconstitute in 500 µL sterile-filtered 1X PBS, pH 7.2-7.6. Glycerol (1:1) may be added for an additional stability.

Storage: 4 °C, -20 °C

Storage Comment: Store at 4°C on dry atmosphere. After reconstitution store at -20°C  
Aliquot to avoid repeated freezing and thawing.

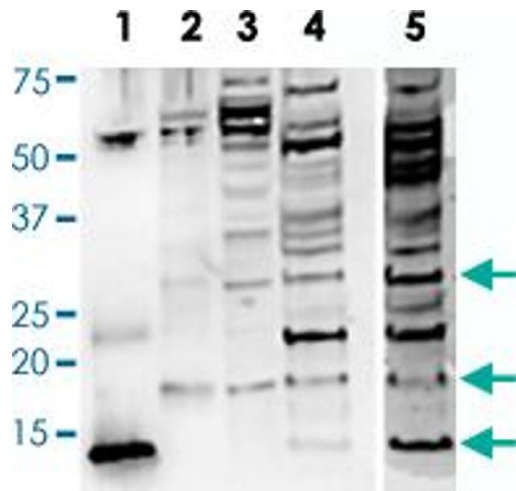
## Publications

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Product cited in: Tapia-Arancibia, Rage, Givalois, Arancibia: "Physiology of BDNF: focus on hypothalamic function." in: **Frontiers in neuroendocrinology**, Vol. 25, Issue 2, pp. 77-107, (2004) ([PubMed](#)).

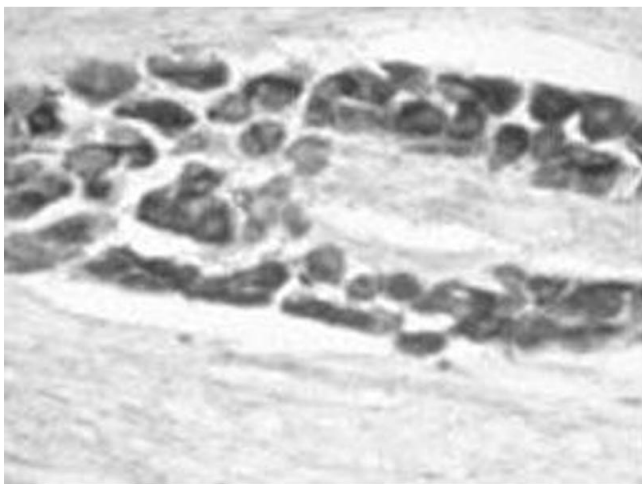
Mellstrom, Torres, Link, Naranjo: "The BDNF gene: exemplifying complexity in Ca<sup>2+</sup>-dependent gene expression." in: **Critical reviews in neurobiology**, Vol. 16, Issue 1-2, pp. 43-9, (2004) ([PubMed](#)).

Pezet, Malcangio, McMahon: "BDNF: a neuromodulator in nociceptive pathways?" in: **Brain research. Brain research reviews**, Vol. 40, Issue 1-3, pp. 240-9, (2003) ([PubMed](#)).



### Western Blotting

**Image 1.** Western Blot analysis of (1) BDNF of rhBDNF R-088-100 (whole serum), (2) BDNF-isoform of rhBDNF R-088-100 (whole serum), (3) SHSY5Y of rhBDNF R-088-100 (whole serum), (4) Human brain of rhBDNF R-088-100 (whole serum), (5) Human brain of R-017-500 (IgG, 10 ug/mL), monomeric BDNF at 14 kDa and proBDNF is detected at the expected molecular weight of 32 kDa for glycosylated proBDNF monomer.



### Immunohistochemistry

**Image 2.** Immunohistochemical staining for BDNF in rat dorsal root ganglion (DRG) using BDNF polyclonal antibody at an amount of 5 ug/mL . Neuron cell bodies are strongly stained for BDNF.