

Datasheet: AHP1831

Description:	RABBIT ANTI HUMAN BDNF
Specificity:	BDNF
Other names:	BRAIN-DERIVED NEUROTROPHIC FACTOR
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			0.5 - 2.0ug/ml
Immunoprecipitation			▪	
Western Blotting	▪			0.1 - 0.2ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG - lyophilised
Reconstitution	Reconstitute with 0.1ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For long term storage the addition of 0.09% sodium azide is recommended.
Antiserum Preparation	Antiserum to human BDNF were raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present
Approx. Protein Concentrations	IgG concentration 1.0mg/ml after reconstitution

External Database Links

UniProt:

[P23560](#)
[Related reagents](#)

Entrez Gene:

[627](#)

BDNF

[Related reagents](#)

Specificity

Rabbit anti Human BDNF antibody recognizes human brain-derived neurotrophic factor (BDNF), also known as abrineurin. BDNF is a secreted 119 amino acid ~30 kDa protein with an additional 18 amino acid signal peptide and a 110 amino acid propeptide region. BDNF is a potent neurotrophin and member of the NGF-beta family, secreted from dense core vesicles, which promotes the growth, differentiation and survival of neurons within, or directly connected to, the central nervous system (CNS).

BDNF signals through binding to the high affinity receptor trkB, and also binds to the low affinity neurotrophin receptor LNGFR. BDNF is involved in the modulation of short-term synaptic function and in the formation of long-term memory ([Alonso *et al.* 2002](#)). BDNF is modulated during progression of Alzheimer's with an early increase and reduced levels in patients with latter stages of Alzheimer's ([Laske *et al.* 2005](#)). Decreased levels of BDNF are also noted in the progression of Huntington's disease ([Zuccato *et al.* 2008](#)) .

ELISA

This purified human BDNF antibody may be used in an indirect ELISA or as the capture reagent in a sandwich ELISA with our [biotinylated human BDNF antibody](#) (AHP1831B) as the detection reagent and [recombinant human BDNF](#) (PHP213) as the standard.

Storage

Prior to reconstitution store at +4°C.

After reconstitution store at -20°C.

Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

12 months from date of reconstitution.

Health And Safety Information

Material Safety Datasheet Documentation #10162 available at: <https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (2AB02...)

[Biotin](#)

Sheep Anti Rabbit IgG (STAR34...)

[FITC](#)

Sheep Anti Rabbit IgG (STAR35...)

[RPE](#)

Goat Anti Rabbit IgG (Fc) (STAR121...)

[Biotin](#), [FITC](#), [HRP](#)

Goat Anti Rabbit IgG (H/L) (STAR124...)

[HRP](#)

Sheep Anti Rabbit IgG (STAR54...)

[HRP](#)

Sheep Anti Rabbit IgG (STAR36...)

[DyLight®488](#), [DyLight®549](#), [DyLight®649](#),
[DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

[TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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