

## Datasheet: AHP1831B

<b>Description:</b>	RABBIT ANTI HUMAN BDNF:Biotin
<b>Specificity:</b>	BDNF
<b>Other names:</b>	BRAIN-DERIVED NEUROTROPHIC FACTOR
<b>Format:</b>	Biotin
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	50 µg

## 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			0.25 - 1.0ug/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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG conjugated to Biotin - lyophilized
<b>Reconstitution</b>	Reconstitute with 0.5ml sterile PBS containing 0.1% bovine serum albumin. 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.
<b>Antiserum Preparation</b>	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.
<b>Buffer Solution</b>	Phosphate buffered saline

<b>Preservative Stabilisers</b>	None present
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1mg/ml after reconstitution
<b>Immunogen</b>	<a href="#">Recombinant human BDNF</a> .
<b>External Database Links</b>	<p><b>UniProt:</b></p> <p><a href="#">P23560</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b></p> <p><a href="#">627</a>    BDNF    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_2064218
<b>Specificity</b>	<p><b>Rabbit anti Human BDNF antibody</b> 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).</p> <p>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 (<a href="#">Alonso <i>et al.</i> 2002</a>). BDNF is modulated during progression of Alzheimer's with an early increase and reduced levels in patients with latter stages of Alzheimer's (<a href="#">Laske <i>et al.</i> 2005</a>). Decreased levels of BDNF are also noted in the progression of Huntington's disease (<a href="#">Zuccato <i>et al.</i> 2008</a>) .</p>
<b>ELISA</b>	This biotinylated human BDNF antibody may be used in a direct ELISA or as the detection reagent in a sandwich ELISA with our <a href="#">purified human BDNF antibody</a> (AHP1831) as the capture reagent and <a href="#">recombinant human BDNF</a> (PHP213) as the standard.
<b>Storage</b>	<p>Prior to reconstitution store at -20°C.</p> <p>After reconstitution store at -20°C.</p> <p>This product should be stored undiluted. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10294 available at: <a href="https://www.bio-rad-antibodies.com/SDS/AHP1831B">https://www.bio-rad-antibodies.com/SDS/AHP1831B</a></p> <p>10294</p>

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**Regulatory**For research purposes only

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