

Datasheet for ABIN3043798  
**anti-BDNF antibody (AA 129-247)**



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10 Publications

## Overview

Quantity:	100 µg
Target:	BDNF
Binding Specificity:	AA 129-247
Reactivity:	Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BDNF antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for Brain-derived neurotrophic factor(BDNF) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	E.coli-derived human BDNF recombinant protein (Position: H129-R247). Human BDNF shares 100% amino acid (aa) sequence identity with both mouse and rat BDNF.
Isotype:	IgG
Cross-Reactivity (Details):	<p>Predicted Cross Reactivity: human</p> <p>No cross reactivity with other proteins.</p> <p>Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.</p>
Characteristics:	Rabbit IgG polyclonal antibody for Brain-derived neurotrophic factor(BDNF) detection. Tested with WB, IHC-P in Human,Mouse,Rat.

## Product Details

Gene Name: brain-derived neurotrophic factor  
Protein Name: Brain-derived neurotrophic factor

Purification: Immunogen affinity purified.

## Target Details

Target: BDNF

Alternative Name: BDNF ([BDNF Products](#))

Background: Brain-derived neurotrophic factor, also known as BDNF, is a secreted protein that, in humans, is encoded by the BDNF gene. BDNF is a member of the neurotrophin family of growth factors, which are related to the canonical nerve growth factor. It is mapped to 11p14.1. BDNF is a prosurvival factor induced by cortical neurons that is necessary for survival of striatal neurons in the brain. It is expressed within peripheral ganglia and is not restricted to neuronal target fields. BDNF has been purified and shown to reduce the amount of naturally occurring neuronal cell death in portions of the peripheral nervous system.

Synonyms: Abrineurin antibody|BDNF antibody|BDNF\_HUMAN antibody|Brain Derived Neurotrophic Factor antibody|Brain-derived neurotrophic factor antibody|MGC34632 antibody|Neurotrophin antibody

Gene ID: 12064

UniProt: [P21237](#)

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

## Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Mouse, Rat, Predicted Species: Human, The detection limit for BDNF is approximately 0.25 ng/lane under reducing conditions.  
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Mouse, Rat, Predicted Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.  
Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested.  
Optimal dilutions should be determined by end users.

## Application Details

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05 mg Sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.  
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

## Publications

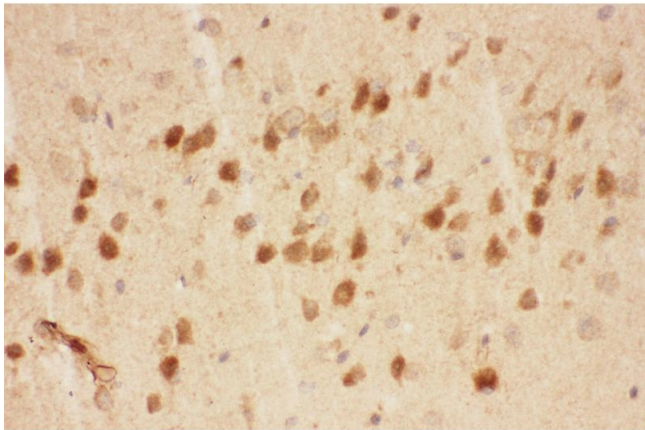
Product cited in: Yu, Chen, Jiang: "Administration of pigment epithelium-derived factor delivered by adeno-associated virus inhibits blood-retinal barrier breakdown in diabetic rats." in: **Molecular vision**, Vol. 16, pp. 2384-94, (2011) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



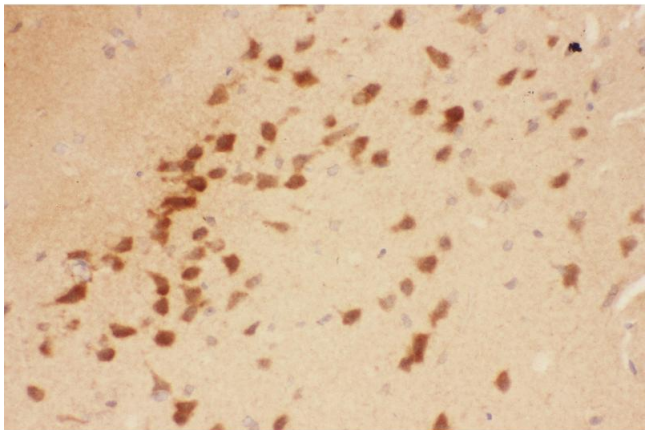
**Western Blotting**

**Image 1.** Anti-BDNF Picoband antibody, All lanes: Anti-BDNF at 0.5ug/ml WB: Rat Brain Tissue Lysate at 40ug Predicted bind size: 28KD Observed bind size: 28KD



**Immunohistochemistry**

**Image 2.** Anti-BDNF Picoband antibody, IHC(P): Mouse Brain Tissue



**Immunohistochemistry**

**Image 3.** Anti-BDNF Picoband antibody, IHC(P): Rat Brain Tissue

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN3043798.