

**BDNF Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP7979B****Specification**

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**BDNF Antibody (C-term) - Product Information**

Application	IF, WB, IHC-P, FC,E
Primary Accession	<a href="#">P23560</a>
Other Accession	<a href="#">P23363</a> , <a href="#">P14082</a> , <a href="#">P21237</a> , <a href="#">Q95106</a> , <a href="#">Q0EAB7</a>
Reactivity	Human
Predicted	Bovine, Horse, Mouse, Pig, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	206-236

**BDNF Antibody (C-term) - Additional Information****Gene ID** 627**Other Names**

Brain-derived neurotrophic factor, BDNF, Abrineurin, BDNF

**Target/Specificity**

This BDNF antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 206-236 amino acids from the C-terminal region of human BDNF.

**Dilution**IF~~1:10~50  
WB~~1:1000  
IHC-P~~1:10~50  
FC~~1:10~50**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

BDNF Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**BDNF Antibody (C-term) - Protein Information****Name** BDNF {ECO:0000303|PubMed:28397838, ECO:0000312|HGNC:HGNC:1033}

**Function** Important signaling molecule that activates signaling cascades downstream of NTRK2 (PubMed:[11152678](#)). During development, promotes the survival and differentiation of selected neuronal populations of the peripheral and central nervous systems. Participates in axonal growth, pathfinding and in the modulation of dendritic growth and morphology. Major regulator of synaptic transmission and plasticity at adult synapses in many regions of the CNS. The versatility of BDNF is emphasized by its contribution to a range of adaptive neuronal responses including long-term potentiation (LTP), long-term depression (LTD), certain forms of short-term synaptic plasticity, as well as homeostatic regulation of intrinsic neuronal excitability.

#### **Cellular Location**

Secreted

#### **Tissue Location**

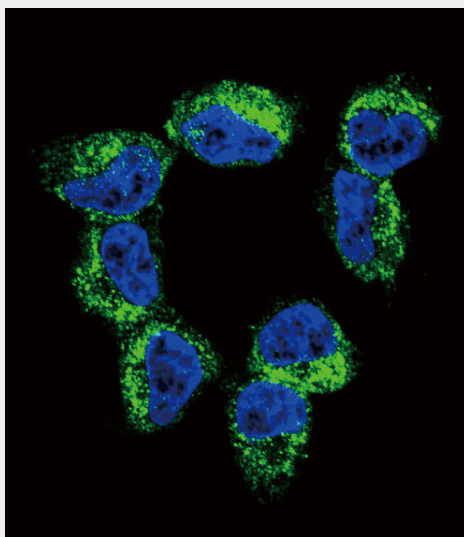
Detected in blood plasma and in saliva (at protein level) (PubMed:11152678, PubMed:19467646). Brain. Highly expressed in hippocampus, amygdala, cerebral cortex and cerebellum. Also expressed in heart, lung, skeletal muscle, testis, prostate and placenta

#### **BDNF Antibody (C-term) - Protocols**

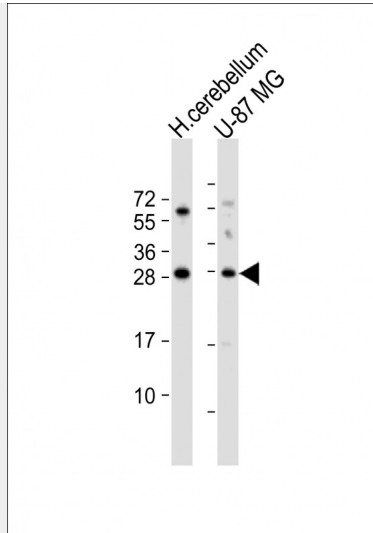
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

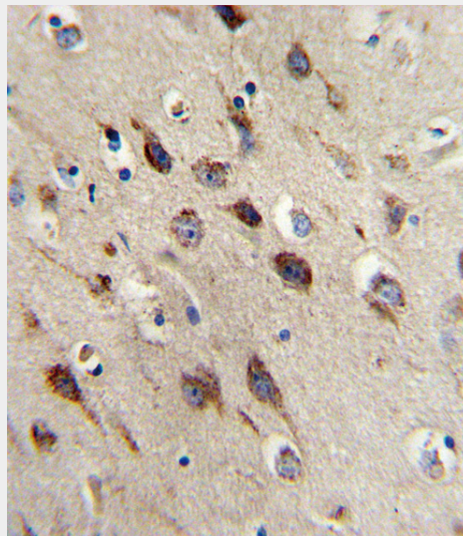
#### **BDNF Antibody (C-term) - Images**



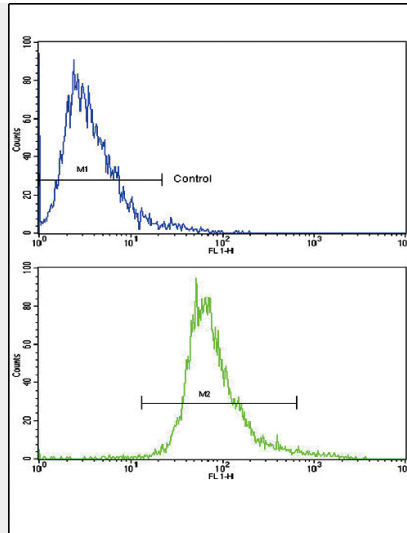
Confocal immunofluorescent analysis of BDNF Antibody (C-term)(Cat#AP7979b) with NCI-H460 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).DAPI was used to stain the cell nuclear (blue).



All lanes : Anti-BDNF Antibody (C-term) at 1:1000 dilution Lane 1: human cerebellum lysate Lane 2: U-87 MG whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 28 kDa Blocking/Dilution buffer: 5% NFDN/TBST.



Formalin-fixed and paraffin-embedded human brain reacted with BDNF Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow cytometric analysis of CEM cells using BDNF Antibody (C-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

#### **BDNF Antibody (C-term) - Background**

BDNF is a member of the nerve growth factor family. It is induced by cortical neurons, and is necessary for survival of striatal neurons in the brain. Expression of this protein is reduced in both Alzheimer's and Huntington disease patients. This protein may play a role in the regulation of stress response and in the biology of mood disorders.

#### **BDNF Antibody (C-term) - References**

- Jiang,H., Clin. Chim. Acta 400 (1-2), 3-7 (2009)
- Liu,L., Psychiatr. Genet. 18 (6), 267-274 (2008)
- Dmitrzak-Weglarz,M., Pharmacogenomics 9 (11), 1595-1603 (2008)

#### **BDNF Antibody (C-term) - Citations**

- [Distribution of BDNF and TrkB isoforms in growing antler tissues of red deer.](#)