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

Specification

BDNF Antibody (C-term) - Product Information

Application	**IF, WB, IHC-P, FC,E**
Primary Accession	P23560
Other Accession	P23363, P14082, P21237, Q95106, Q0EAB7
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

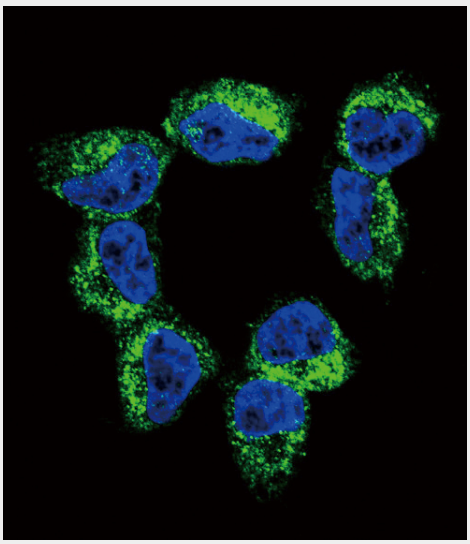
Tissue Location
Detected in blood plasma and in saliva (at protein level) (PubMed:11152678, PubMed:19467646). Brain. Highly expressed in hippocampus, amygdala, cerebral cortex and cerebellum. Also expressed in heart, lung, skeletal muscle, testis, prostate and placenta

BDNF Antibody (C-term) - Protocols

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

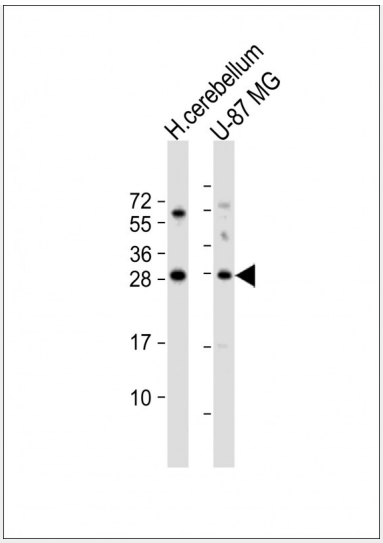
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

BDNF Antibody (C-term) - Images

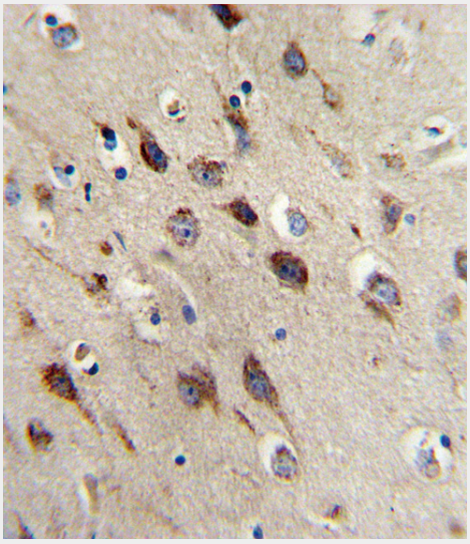


Confocal immunofluorescent analysis of BDNF Antibody (C-term)(Cat#AP7979b) with NCI-H460 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).DAPI was used to stain the cell nuclear (blue).

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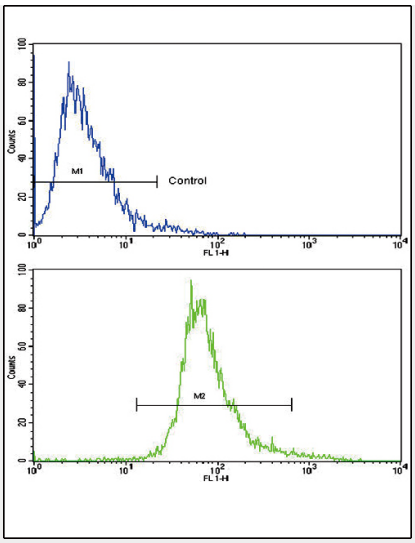


All lanes : Anti-BDNF Antibody (C-term) at 1:1000 dilution Lane 1: human cerebellum lysate Lane 2: U-87 MG whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 28 kDa Blocking/Dilution buffer: 5%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

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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.