10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

BDNF Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP7979b

Specification

BDNF Antibody (C-term) Blocking Peptide - Product Information

Primary Accession P23560

BDNF Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 627

Other Names
Brain-derived neurotrophic factor, BDNF, Abrineurin, BDNF

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7979b was selected from the C-term region of human BDNF. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

BDNF Antibody (C-term) Blocking Peptide - 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) Blocking Peptide - Protocols

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

- Blocking Peptides

BDNF Antibody (C-term) Blocking Peptide - Images

BDNF Antibody (C-term) Blocking Peptide - 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) Blocking Peptide - 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)