

BDNF Antibody (N-term) Blocking Peptide

Synthetic peptide

Catalog # BP7979a

Specification

BDNF Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [P23560](#)**BDNF Antibody (N-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 [AP7979a](/products/AP7979a) was selected from the N-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 (N-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](http://www.uniprot.org/citations/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 (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

BDNF Antibody (N-term) Blocking Peptide - Images**BDNF Antibody (N-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 (N-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)