

BDNF Antibody

Rabbit mAb Catalog # AP90277

Specification

BDNF Antibody - Product Information

Application WB, IHC, ICC Primary Accession P23560 Reactivity Rat

Clonality Monoclonal

Other Names

BDNF;MGC34632;Abrineurin; ANON2; Brain Derived Neurotrophic Factor; Neurotrophin;BULN2;

Isotype Rabbit IgG
Host Rabbit
Calculated MW 27818 Da

BDNF Antibody - Additional Information

Purification Affinity-chromatography

Immunogen A synthesized peptide derived from human

BDNF

Description Neurotrophins function to regulate

naturally occurring cell death of neurons

during development. The prototype

neurotrophin is nerve growth factor (NGF), originally discovered in the 1950s as a soluble peptide promoting the survival of, and neurite outgrowth from, sympathetic ganglia. Three additional structurally homologous neurotrophic factors have

been identified. These include

brain-derived neurotrophic factor (BDNF), neurotrophin-3 (NT-3) and neurotrophin-4

(NT-4) (also designated NT-5).

Storage Condition and Buffer Rabbit IgG in phosphate buffered saline,

pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid

freeze / thaw cycle.

BDNF Antibody - 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

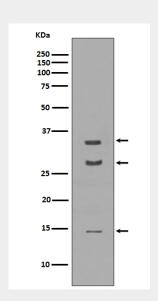
Detected in blood plasma and in saliva (at protein level) (PubMed:11152678, PubMed:19467646). Brain. Highly expressed in hippocampus, amygdala, cerebral cortex and cerebellum. Also expressed in heart, lung, skeletal muscle, testis, prostate and placenta

BDNF Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

BDNF Antibody - Images



Western blot analysis of extracts of Human cerebellum lysate, using BDNF antibody.