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Anti-BDNF Picoband Antibody

Catalog # ABO11789

Product Information

Application	WB, IHC-P
Primary Accession	P21237
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Brain-derived neurotrophic factor(BDNF) detection. Tested with WB, IHC-P in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	12064
Other Names	Brain-derived neurotrophic factor, BDNF, Bdnf
Calculated MW	28123
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml, Mouse, Rat, Human, By Heat Western blot, 0.1-0.5 □g/ml, Mouse, Rat, Human
Subcellular Localization	Secreted.
Source	Eukaryota
Protein Name	Brain-derived neurotrophic factor
Contents	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	E.coli-derived human BDNF recombinant protein (Position: H129-R247). Human BDNF shares 100% amino acid (aa) sequence identity with both mouse and rat BDNF.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated

freezing and thawing.

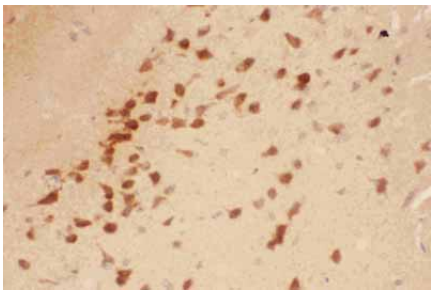
Protein Information

Name	Bdnf
Function	Important signaling molecule that activates signaling cascades downstream of NTRK2 (PubMed:27457814). 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 (PubMed:15486301, PubMed:17023662, PubMed:27457814, PubMed:29909994, PubMed:8139657).
Cellular Location	Secreted {ECO:0000250|UniProtKB:P23560}.
Tissue Location	Expressed in the dorsal root ganglion and the spinal cord (at protein level) (PubMed:28111162). Detected in brain, especially in brain cortex, hippocampus, midbrain and cerebellum (PubMed:2369898, PubMed:8139657).

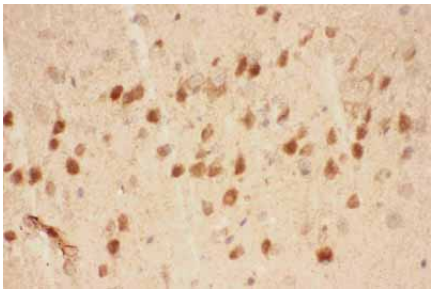
Background

Brain-derived neurotrophic factor, also known as BDNF, is a secreted protein that, in humans, is encoded by the BDNF gene. BDNF is a member of the neurotrophin family of growth factors, which are related to the canonical nerve growth factor. It is mapped to 11p14.1. BDNF is a prosurvival factor induced by cortical neurons that is necessary for survival of striatal neurons in the brain. It is expressed within peripheral ganglia and is not restricted to neuronal target fields. BDNF has been purified and shown to reduce the amount of naturally occurring neuronal cell death in portions of the peripheral nervous system.

Images



Anti-BDNF Picoband antibody, ABO11789-1.JPGIHC(P): Rat Brain Tissue



Anti-BDNF Picoband antibody, ABO11789-2.JPGIHC(P): Mouse Brain Tissue



Anti-BDNF Picoband antibody, ABO11789-3.jpgAll lanes: Anti-BDNF(ABO11789) at 0.5ug/mlWB: Rat Brain Tissue Lysate at 40ugPredicted bind size: 28KDObserved bind size: 28KD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.