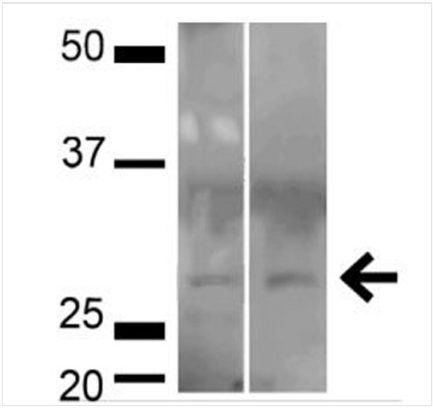
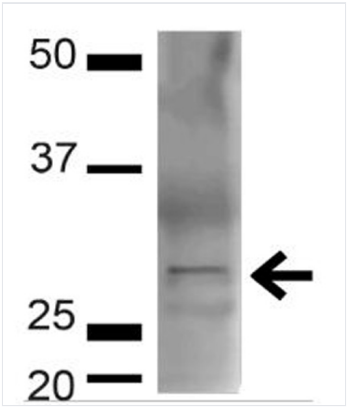
Brain-Derived Neurotrophic Factor (BDNF) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

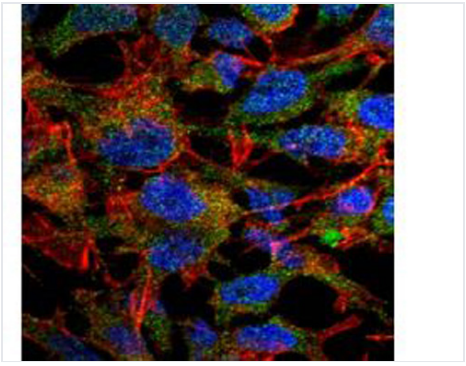
Product Name	Brain-Derived Neurotrophic Factor (BDNF), Polyclonal Antibody
Full Product Name	Brain-Derived Neurotrophic Factor (BDNF) Polyclonal Antibody
Product Gene Name	anti-BDNF antibody
Clonality	Polyclonal
Host	Rabbit
Form/Format	100ug (1mg/ml) peptide affinity-purified antibody in PBS, pH 7.4, 50% glycerol, 0.09% sodium azide.
Specificity	This antibody recognizes human and mouse BDNF.
Preparation and Storage	This antibody is stable for at least one (1) year at-20 degree C.
Molecular Weight	28,872 Da
3D Structure	ModBase 3D Structure for P23560
Immunogen	Synthetic peptide corresponding to the N-terminus of human BDNF.
Applications Tested/Suitable for anti-BDNF antibody	Immunoblot, Immunofluorescence (IF)
Application Notes for anti-BDNF antibody	Immunoblot: 1:1,000. A band of ~27-28kDa is detected. IF: 1:100 Dilute in PBS or medium that is identical to that used in the assay system.
Related Product Information for anti-BDNF antibody	BDNF acts on neurons of the central nervous system and the peripheral nervous system supporting the survival of existing neurons and stimulating growth and differentiation of new neurons and synapses. In the brain, it is active in the hippocampus, cortex, and basal forebrain, areas vital to learning, memory, and higher thinking. It is also expressed in the retina, motor neurons, kidneys, saliva, and prostate.
Other Notes	Small volumes of anti-BDNF antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for BDNF purchase	MBS191356 is an antibody targeting BDNF. Also known as Brain-Derived Neurotrophic Factor (BDNF) Polyclonal Antibody. Host: Rabbit.



Testing Data of anti-BDNF antibody
Detection of BDNF in HeLa cell lysate (left) and human 293T cell lysate (right) diluted 1:1,000.



Testing Data of anti-BDNF antibody
Detection of BDNF in mouse brain lysate diluted 1:1,000.



Testing Data of anti-BDNF antibody
Detection of BDNF in human neuroblastoma cell line SK-NBE diluted 1:100. DAPI (blue) nuclear stain, Texas red actin stain, and FITC (green) BDNF stain.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BDNF. It may not necessarily be applicable to this product.

NCBI GI #	219842288
NCBI GeneID	627
NCBI Accession #	NP_001137277
UniProt Primary Accession #	P23560
UniProt Secondary Accession #	Q598Q1; Q6DN19; Q6YNR2; Q6YNR3; Q9BYY7; Q9UC24; A7LA85; A7LA92; D3DQZ2
UniProt Related Accession #	P23560
GenBank Nucleotide #	NM_001143805.1
NCBI Official Full Name	brain-derived neurotrophic factor isoform a preproprotein
NCBI Official Synonym Full Names	brain derived neurotrophic factor
NCBI Official Symbol	BDNF
NCBI Official Synonym Symbols	ANON2; BULN2
UniProt Protein Name	Brain-derived neurotrophic factor
UniProt Synonym Protein Names	Abrineurin
Protein Family	Brain-derived neurotrophic factor
UniProt Gene Name	BDNF
UniProt Synonym Gene Names	BDNF
NCBI Protein Information	brain-derived neurotrophic factor
NCBI Summary for BDNF	This gene encodes a member of the nerve growth factor family of proteins. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature protein. Binding of this protein to its cognate receptor promotes neuronal survival in the adult brain. Expression of this gene is reduced in Alzheimer's, Parkinson's, and Huntington's disease patients. This gene may play a role in the regulation of the stress response and in the biology of mood disorders. [provided by RefSeq, Nov 2015]
UniProt Comments for BDNF	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.

Research Articles on BDNF	**1.** polymorphisms in BDNF gene including rs925946, rs10501087, rs6265 and rs988712 can be considered as genetic determinants of obesity (systematic review and meta-analysis).
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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