

## Rabbit polyclonal antibody to BDNF (129-148): Affinity purified

<b>Catalogue No.:</b>	R-1004-100
<b>Description:</b>	BDNF belongs to the neurotrophin family and promotes the survival of neuronal populations that are all located either in the central nervous system or directly connected to it. It is a 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. The alterations in BDNF expression induced by various kinds of brain insult including stress, ischemia, seizure activity and hypoglycaemia, may contribute to some pathologies such as depression, epilepsy, Alzheimer's, and Parkinson's disease. Microglia release BDNF that may contribute to neuroinflammation and neuropathic pain. SUBUNIT: Monomers and homodimers. Binds to NTRK2/TRKB. SUBCELLULAR LOCATION: Secreted protein. Post translation modification: Converted into mature BDNF by plasmin (PLG). SIMILARITY: Belongs to the NGF-beta family.
<b>Batch No.:</b>	See product label
<b>Unit size:</b>	100 ug
<b>Antigen:</b>	A peptide (HSDPARRGELSVCDSEWV) corresponding to a sequence at the N-terminal of human BDNF (amino acids 129-148).
<b>Other Names:</b>	Brain-derived neurotrophic factor; Abrineurin; proBDNF;
<b>Accession:</b>	P23560 BDNF_HUMAN; P21237 BDNF_MOUSE; P23363 BDNF_RAT
<b>Produced in:</b>	Rabbit
<b>Purity:</b>	Affinity purified on antigen column
<b>Applications:</b>	Western Blotting (WB). A concentration of 0.1-0.5 ug/mL is recommended for WB. Human BDNF has a predicted length of 247 residues and MW of 28 kDa for BDNF precursor and 13 kDa for mature BDNF. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
<b>Specificity:</b>	The specificity of this antibody has been confirmed by WB against the antigen.
<b>Cross-reactivity:</b>	Human; mouse; rat;
<b>Form:</b>	Lyophilized
<b>Reconstitution:</b>	Reconstitute in 100 uL of sterile water. Centrifuge to remove any insoluble material.
<b>Storage:</b>	Maintain lyophilized material at -20C for up to 12 months after date of receipt. After reconstitution, aliquot and store at -20C for up to 6 months. Avoid freeze-thaw cycles.
<b>Expiry Date:</b>	12 months after purchase, unopened.

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