

## Sheep antibody to rh BDNF: Whole serum

<b>Catalogue No.:</b>	S-016-100
<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 hypoglycemia, 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 uL
<b>Antigen:</b>	Recombinant human BDNF
<b>Other Names:</b>	Brain-derived neurotrophic factor; Abrineurin; proBDNF;
<b>Accession:</b>	BDNF_HUMAN
<b>Produced in:</b>	Sheep
<b>Purity:</b>	Whole serum
<b>Applications:</b>	IHC, Inhibition of biological activity in vitro/in vivo. Recommended to be used at a dilution of 1:200-2000 for immunohistochemistry on Zamboni's fixed frozen tissue; not recommended for formalin fixed paraffin embedded tissues. 1:10 to 1:50 for inhibition of biological activity in vitro. Use neat for in vivo studies at 5-10 uL/g body weight. Whole serum format will caused immune responses, purified format is preferred for most in vivo work. Not recommended for western blots. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
<b>Specificity:</b>	A cross reactivity of less than 1% against mouse NGF, recombinant human NT3 or NT4/5 has been shown by one site ELISA.
<b>Cross-reactivity:</b>	This antiserum recognises BDNF from rat, mouse and human.
<b>Form:</b>	Lyophilised
<b>Reconstitution:</b>	Reconstitute in 100 uL of sterile water. Centrifuge to remove any insoluble material.
<b>Storage:</b>	After reconstitution keep aliquots at -20C for a higher stability, and at 2-8C with an appropriate antibacterial agent. Glycerol (1:1) may be added for an additional stability. Avoid repetitive freeze/thaw cycles.
<b>Expiry Date:</b>	12 months after purchase
<b>References:</b>	1. A Acheson et al (1995) Nat. 74: 450-3

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3. XF Zhou et al (1996) Neurosci. 74: 945-53
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6. I Tapia-Arancibia et al (2004) Front Neuroendocrinol 25, 77-107
7. S Pezet, et al (2002) Brain Res Brain Res Rev 40, 240-9
8. JA Coull et al (2005) Nature. Dec 15;438(7070):1017-21.
9. C Gomes et al (2013) J Neuroinflammation. Jan 30;10:16.

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