

# Agrisera

This product is for research use only (not for diagnostic or therapeutic use)

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Product no **AS13 2691**

## BDNF | Brain-derived neurotrophic factor

### Product information

<b>Background</b>	<b>BDNF</b> belongs to the neurotrophin family and regulates the survival and differentiation of neurons during development. 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. It promotes the survival of neuronal populations that are all located either in the central nervous system or directly connected to it. 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. Binds to NTRK2/TRKB. It is converted into mature BDNF by plasmin (PLG). Belongs to the NGF-beta family.
<b>Immunogen</b>	<u>KLH</u> -conjugated synthetic peptide HSDPARRGEL. The BDNF protein sequence is highly conserved amongst primates.
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Purity</b>	Serum
<b>Format</b>	Lyophilized
<b>Quantity</b>	100 µl
<b>Reconstitution</b>	For reconstitution add 100 µl of sterile water.
<b>Storage</b>	After reconstitution keep aliquots at -20°C for a higher stability, and at 4°C with an appropriate antibacterial agent. Glycerol (1:1) may be added for an additional stability. Avoid repetitive freeze/thaw cycles.
<b>Tested applications</b>	ELISA (ELISA), Immunohistochemistry (IHC), Western blot (WB)
<b>Related products</b>	<a href="#">AS16 3242</a>   Anti-BDNF   Brain Derived Neurotrophic Factor (affinity purified antibodies)

### Application information

<b>Recommended dilution</b>	1 : 1000-1 : 2000 (ELISA), (IHC), (WB)
<b>Confirmed reactivity</b>	Human, Mouse, Rat
<b>Not reactive in</b>	No confirmed exceptions from predicted reactivity are currently known.
<b>Additional information</b>	<p>This antibody detects multiple BDNF isoforms (14 kDa mature BDNF, 18 kDa isoform, 28 kDa BDNF dimer/truncated BDNF, 32 kDa proBDNF monomer), depending upon sample type (human serum, cell lysate, tissue homogenate).</p> <p>This antibody is also recognizing BDNF in non denaturing conditions.</p> <p>Cross reaction with mouse NGF recombinant human NT3 and NT4/5 is lower than 0.1 % as confirmed by dot blot analysis. For high resolution images, please visit the specific product page at <a href="http://www.agrisera.com">www.agrisera.com</a></p>

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