

Product Datasheet

Rat BDNF ELISA Kit BEK-2000-2P

Unit Size: 1 Kit

Store at 4C. Do not freeze.

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BEK-2000-2P**Rat BDNF ELISA Kit**

Product Information	
Unit Size	1 Kit
Concentration	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
Storage	Store at 4C. Do not freeze.
Product Description	
Gene ID	627
Gene Symbol	BDNF
Species	Rat
Reactivity Notes	Rat. May also react with Human and Mouse.
Specificity/Sensitivity	Rat BDNF
Immunogen	BDNF 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. FUNCTION: 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. SUBUNIT: Monomers and homodimers. Binds to NTRK2/TRKB. SUBCELLULAR LOCATION: Secreted protein. Post Translation Modification (PTM): The propeptide is N-glycosylated and glycosulfated. PTM: Converted into mature BDNF by plasmin (PLG) (By similarity). DISEASE: Defects in BDNF are a cause of congenital central hypoventilation syndrome (CCHS); also known as congenital failure of autonomic control or Ondine curse. CCHS is a rare disorder characterized by abnormal control of respiration in the absence of neuromuscular or lung disease, or an identifiable brain stem lesion. A deficiency in autonomic control of respiration results in inadequate or negligible ventilatory and arousal responses to hypercapnia and hypoxemia. CCHS is frequently complicated with neurocristopathies such as Hirschsprung disease that occurs in about 16% of CCHS cases. SIMILARITY: Belongs to the NGF-beta family.
Notes	This kit contains 2.0 x 96.0 Well Strip.
Product Application Details	
Applications	ELISA, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	ELISA 31.2pg/ml-2000pg/ml, Immunohistochemistry, Immunohistochemistry-Paraffin
Application Notes	This product is useful for Sandwich ELISA detection. Strip format Biosensis ELISA kits offer the highest level of sensitivity available Strip 96-well format, use only what you need: High sensitivity and low blank Suitability for serum & tissues Reproducible results This kit contains: Pre-coated plates, Prepared standards Buffers, Detection reagents, Substrate Precise methods/instructions. Use in Immunohistochemistry-Paraffin reported in scientific literature (PMID 26516696)



Publications

Du Z, Bondarenko O, Wang D et al. Ex Vivo Assay of Electrical Stimulation to Rat Sciatic Nerves: Cell Behaviors and Growth Factor Expression. J. Cell. Physiol. 2015-10-30 [PMID: 26516696] (IHC-P, Rat)



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Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. ELISA Kits are guaranteed for 6 months from date of receipt.

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