

Polyclonal Anti- BDNF Picoband™ Antibody

Catalog Number: PB9075

Description

Gene Name	brain-derived neurotrophic factor
Recommended Protein Name	Brain-derived neurotrophic factor
Lot No.	0901412Da717585
Size	100µg/vial
Form	lyophilized
Ig type	Rabbit IgG
Specificity	No cross reactivity with other proteins.
Purification	Immunogen affinity purified.
Species	Reacts with: mouse, rat Predicted to work with: human
Immunogen	E.coli-derived human BDNF recombinant protein (Position: H129-R247). Human BDNF shares 100% amino acid (aa) sequence identity with both mouse and rat BDNF.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .

Application

	Concentration	Tested Species	Predicted Species	Antigen Retrieval
Western blot	0.1-0.5µg/ml	Ms, Rat	Hu	-
Immunohistochemistry (Paraffin-embedded Section)	0.5-1µg/ml	Ms, Rat	Hu	By Heat

WB: The detection limit for BDNF is approximately 0.25ng/lane under reducing conditions.

Tested Species: In-house tested species with positive results.

Predicted Species: Species predicted to be fit for the product based on sequence similarities.

By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections.

Other applications have not been tested.

Optimal dilutions should be determined by end users.

Preparation and storage

Reconstitution: 0.2ml of distilled water will yield a concentration of 500µg/ml.

Storage: At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time.

Avoid repeated freezing and thawing.

Relevant detection systems

Boster provides a series of assays reacted with primary antibodies. Antibody can be supported by chemiluminescence kit EK1002 in WB, supported by SA1022 in IHC(P).

Background

Brain-derived neurotrophic factor, also known as BDNF, is a secreted protein that, in humans, is encoded by the BDNF gene. BDNF is a member of the neurotrophin family of growth factors, which are related to the canonical nerve growth factor. It is mapped to 11p14.1. BDNF is a prosurvival factor induced by cortical neurons that is necessary for survival of striatal neurons in the brain. It is expressed within peripheral ganglia and is not restricted to neuronal target fields. BDNF has been purified and shown to reduce the amount of naturally occurring neuronal cell death in portions of the peripheral nervous system.

Reference

1. Jones, K. R.; Reichardt, L. F. : Molecular cloning of a human gene that is a member of the nerve growth factor family. Proc. Nat. Acad. Sci. 87: 8060-8064, 1990.
2. Lee, R.; Kermani, P.; Teng, K. K.; Hempstead, B. L. : Regulation of cell survival by secreted proneurotrophins. Science 294: 1945-1948, 2001 .
3. Pruunsild, P.; Kazantseva, A.; Aid, T.; Palm, K.; Timmusk, T. : Dissecting the human BDNF locus: bidirectional transcription, complex splicing, and multiple promoters. Genomics 90: 397-406, 2007.