BOSTER BIOLOGICAL TECHNOLOGY Co.,Ltd.
3942 B Valley Ave, Pleasanton, CA, 94566
Phone: 888-466-3604 Fax: 925-215-2184 Email: boster@bosterbio.com Web: www.bosterbio.com

Polyclonal Anti-BDNF Antibody

Catalog Number: PA1014

Description

Gene Name	brain-derived neurotrophic factor
Recommended Protein Name	Brain-derived neurotrophic factor
Lot No.	010151221/221442
Size	100μg/vial
Form	lyophilized
Ig type	Rabbit IgG
Specificity	No cross reactivity with other proteins.
Purification	Immunogen affinity purified.
Species	**Reacts with:** human, mouse, rat
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminal of human BDNF(129-148aa HSDPARRGELSVCDSISEWV), identical to the related rat and mouse sequences.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na_2HPO_4, 0.05mg Thimerosal, 0.05mg NaN_3.

Application

	Concentration	Tested Species	Predicted Species	Antigen Retrieval
Western blot	0.1-0.5μg/ml	Hu, Ms, Rat	-	-

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

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

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.

Background

Brain derived neurotrophic factor (BDNF) is a member of the neurotrophin family of growth factors that includes NGF, NT3, and NT4. BDNF is a prosurvival factor induced by cortical neurons that is necessary for survival of striatal neurons in the brain. BDNF 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.