

Basic Information

Product Name	Anti-BDNF Antibody
Gene Name	BDNF
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.
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.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	14 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt, -20°C as supplied.

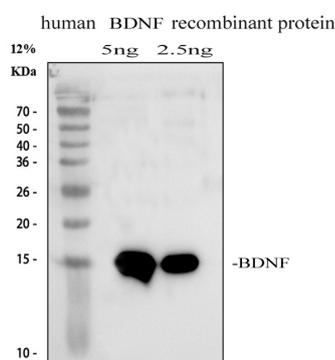
Background Information

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

Anti-BDNF Antibody被引用在44文献中。

Selected Validation Data



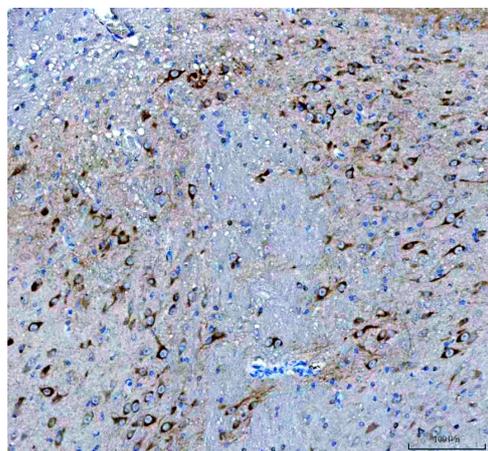
Western blot analysis of BDNF using anti-BDNF antibody (PB9075).

Lane 1: recombinant human BDNF protein 5 ng,

Lane 2: recombinant human BDNF protein 2.5 ng.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-BDNF antigen affinity purified polyclonal antibody (PB9075) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for BDNF at approximately 14 kDa.



IHC analysis of BDNF using anti-BDNF antibody (PB9075).

BDNF was detected in a paraffin-embedded section of mouse brain tissue. The tissue section was incubated with rabbit anti-BDNF Antibody (PB9075) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.