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Datasheet for ABIN7043557

anti-Pro BDNF antibody (Pro-Domain)

2 Images

Overview

Quantity:	25 µL
Target:	Pro BDNF (proBDNF)
Binding Specificity:	AA 72-88, Pro-Domain
Reactivity:	Human, Mouse
Host:	Guinea Pig
Clonality:	Polyclonal
Conjugate:	This Pro BDNF antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)DEDQKVRPNEENNKDAD, corresponding to amino acid residues 72-88 of human BDNF (precursor)
Isotype:	IgG
Cross-Reactivity (Details):	The antibody is specific for proBDNF, it does not crossreact with proNGF, proNT-3 or mature BDNF.
Characteristics:	Guinea pig Anti-proBDNF Antibody is directed against the prodomain region of human proBDNF. Guinea pig Anti-proBDNF Antibody (#), raised in guinea pig, can be used in western and immunohistochemistry applications. In addition, the antibody is an excellent tool for easy multiplex staining studies. It has been designed to recognize proBDNF from mouse, rat and human samples. The antigen used to immunize guinea pigs is the same as Anti-proBDNF

Product Details

Antibody (ABIN7043558, ABIN7044753 and ABIN7044754) raised in rabbit. Our line of guinea pig antibodies enables more flexibility with our products such as multiplex staining studies, immunoprecipitation, etc.

Purification: Affinity purified on immobilized antigen.

Target Details

Target: Pro BDNF (proBDNF)

Alternative Name: proBDNF ([proBDNF Products](#))

Background: Alternative names: proBDNF, Brain-derived neurotrophic factor precursor

Gene ID: 627

NCBI Accession: [NM_170735](#)

UniProt: [P23560](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: 25 μ L, 50 μ L or 0.2 mL double distilled water (DDW), depending on the sample size.

Concentration: 0.8 mg/mL

Buffer: Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide.

Preservative: Sodium azide

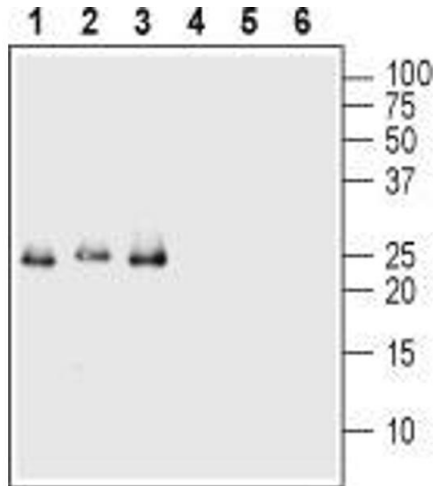
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: RT, 4 °C, -20 °C

Storage Comment: Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C.

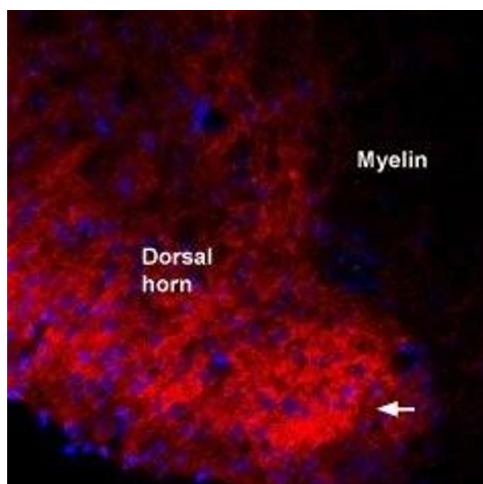
Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week.

For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).



Western Blotting

Image 1. Western blot analysis of 50 ng of each Recombinant human Val66Met proBDNF (cleavage resistant) protein (#B-456) (lanes 1 and 4), Recombinant mouse proBDNF protein (#B-240) (lanes 2 and 5) and Recombinant human proBDNF protein (#B-257) (lanes 3 and 6): - 1-3. Guinea pig Anti-proBDNF Antibody (ABIN7043557, ABIN7045388 and ABIN7045389), (1:200). 4-6. Guinea pig Anti-proBDNF Antibody, preincubated with proBDNF Blocking Peptide (#BLP-NT006).



Immunohistochemistry

Image 2. Expression of proBDNF in rat spinal cord - Immunohistochemical staining of immersion-fixed, free floating rat spinal cord frozen sections using Guinea pig Anti-proBDNF Antibody (ABIN7043557, ABIN7045388 and ABIN7045389), (1:1000). proBDNF (red) is detected in the superficial layer (arrow) of the dorsal horn of the spinal cord. The myelinated columns are devoid of staining. Cell nuclei are stained with DAPI (blue).