



[Go to Product page](#)

Datasheet for ABIN7043558

anti-Pro BDNF antibody (Pro-Domain)

4 Images

Overview

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

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:	Anti-proBDNF Antibody (ABIN7043558, ABIN7044753 and ABIN7044754)) is a highly specific antibody directed against the prodomain region of human proBDNF. The antibody can be used in western blot, immunoprecipitation, and immunohistochemistry applications. It has been designed to recognize proBDNF from human, mouse, and rat samples. The antibody does not

Product Details

cross react with mature BDNF, pro- and mature NGF or mature NT-3.

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

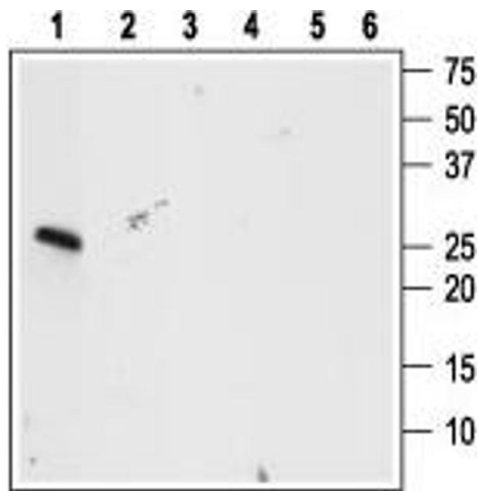
Buffer: Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide.

Preservative: Sodium azide

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

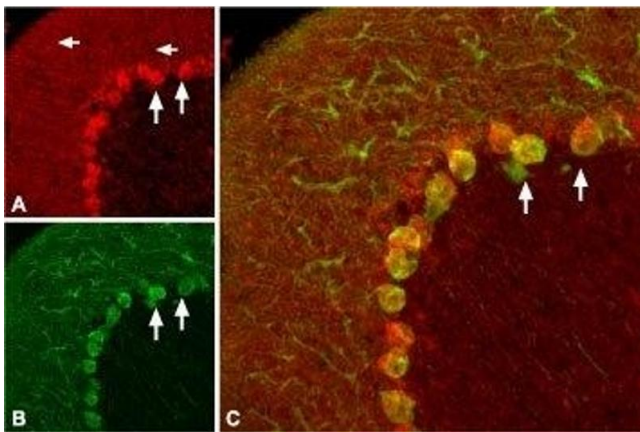
Storage: RT, 4 °C, -20 °C

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).



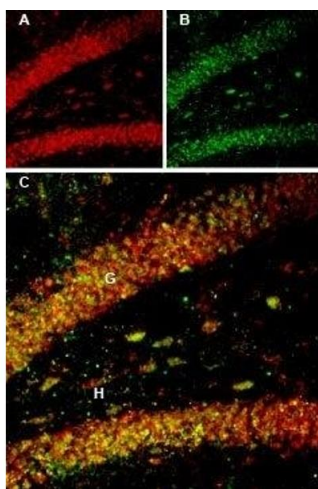
Western Blotting

Image 1. Western blot analysis using Anti-proBDNF Antibody (ABIN7043558, ABIN7044753 and ABIN7044754), (1:400): - 1. Recombinant human proBDNF protein (#B-257), (20 ng).2. Recombinant human proNGF protein (#N-280), (200 ng).3. Recombinant proNT-3 (200 ng).4. Recombinant human BDNF protein (#B-250), (200 ng).5. Native mouse NGF 2.5S protein (>95 %)(#N-100), (200 ng).6. Recombinant human Neurotrophin-3 (NT-3) protein (#N-260), (200 ng).



Immunohistochemistry

Image 2. Expression of proBDNF in rat cerebellum - Immunohistochemical staining of rat cerebellum with Anti-proBDNF Antibody (ABIN7043558, ABIN7044753 and ABIN7044754). proBDNF (red) appears in Purkinje cell bodies (vertical arrows) and in astrocytic processes (horizontal arrows in A) but not in Purkinje neuronal dendrites stained for calbindin D28k (green, in B) in the same brain section. C. Confocal merge of proBDNF and CBD28K demonstrates the restriction of proBDNF to Purkinje cell body.



Immunohistochemistry

Image 3. Multiplex staining of BDNF and proBDNF in rat hippocampus - Immunohistochemical staining of rat hippocampal dentate gyrus perfusion-fixed frozen sections using Guinea pig Anti-BDNF Antibody (ABIN7042969, ABIN7045379 and ABIN7045380), (1:300) and Anti-proBDNF Antibody (ABIN7043558, ABIN7044753 and ABIN7044754), (1:200). A. BDNF staining (red) appears in interneuron outlines (arrows) in the hilus (H) region and in the granule layer (G). B. proBDNF staining (green) in the same section appears in interneuron outlines (arrows) in the hilus (H) region and in the granule layer (G). C. Merge of

panel A and panel B shows extensive co-localization of the two proteins.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7043558.