abcam

Product datasheet

Anti-BDNF antibody ab223354

1 References 3 Images

Overview

Product name Anti-BDNF antibody

Description Rabbit polyclonal to BDNF

Host species Rabbit

Tested applications Suitable for: ICC/IF, WB

Species reactivity Reacts with: Mouse, Human

Immunogen Synthetic peptide corresponding to Human BDNF (N terminal).

Database link: P23560

Positive control WB: HeLa and HEK-293T cell lysates; Mouse brain lysate. ICC/IF: SK-N-BE cells.

General notesThe Life Science industry has been in the grips of a reproducibility crisis for a number of years.

Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets

your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be

found below, along with publications, customer reviews and Q&As

Properties

Form Liquid

Storage instructions Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long

term. Avoid freeze / thaw cycle.

Storage buffer Preservative: 0.09% Sodium azide

Constituents: 50% Glycerol (glycerin, glycerine), PBS

Purity Immunogen affinity purified

Clonality Polyclonal

Isotype IgG

Applications

The Abpromise guarantee Our Abpromise guarantee covers the use of ab223354 in the following tested applications.

1

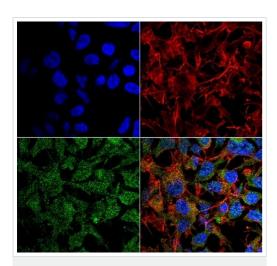
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		1/100.
WB		1/1000. Detects a band of approximately 27.9 kDa (predicted molecular weight: 27.9 kDa).

Target

Function	During development, promotes the survival and differentiation of selected neuronal populations of the peripheral and central nervous systems. Participates in axonal growth, pathfinding and in the modulation of dendritic growth and morphology. Major regulator of synaptic transmission and plasticity at adult synapses in many regions of the CNS. The versatility of BDNF is emphasized by its contribution to a range of adaptive neuronal responses including long-term potentiation (LTP), long-term depression (LTD), certain forms of short-term synaptic plasticity, as well as homeostatic regulation of intrinsic neuronal excitability.	
Tissue specificity	Brain. Highly expressed in hippocampus, amygdala, cerebral cortex and cerebellum. Also expressed in heart, lung, skeletal muscle, testis, prostate and placenta.	
Involvement in disease	Bulimia nervosa 2 Congenital central hypoventilation syndrome	
Sequence similarities	Belongs to the NGF-beta family.	
Post-translational modifications	The propeptide is N-glycosylated and glycosulfated. Converted into mature BDNF by plasmin (PLG).	
Cellular localization	Secreted.	

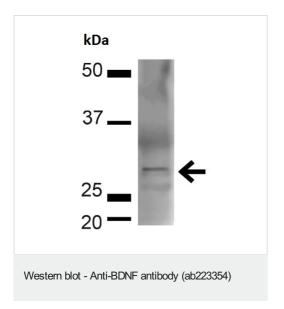
Images



Immunocytochemistry/ Immunofluorescence - Anti-BDNF antibody (ab223354)

4% formaldehyde-fixed SK-N-BE cells stained for BDNF (green) using ab223354 at 1/100 dilution in ICC/IF. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1/1000, 1/5000 for 60 min RT, 5 min RT.

(A) DAPI nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) ab223354 (D) Merge.



Anti-BDNF antibody (ab223354) at 1/1000 dilution + Mouse brain lysate at 20 μg

Secondary

Goat Anti-Rabbit IgG HRP at 1/2000 dilution

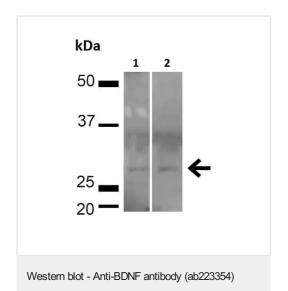
Predicted band size: 27.9 kDa **Observed band size:** 27.9 kDa

Exposure time: 12 minutes

Blocking buffer: 5% milk in TBST.

Color Development: TMB solution.

Primary and secondary antibodies were incubated for 1 hour at RT.



All lanes: Anti-BDNF antibody (ab223354) at 1/1000 dilution

Lane 1 : HeLa (human epithelial cell line from cervix adenocarcinoma) cell lysate

Lane 2: HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes: Goat Anti-Rabbit IgG HRP at 1/2000 dilution

Predicted band size: 27.9 kDa **Observed band size:** 27.9 kDa

Exposure time: 12 minutes

Blocking buffer: 5% milk in TBST.

Color Development: TMB solution.

Primary and secondary antibodies were incubated for 1 hour at RT.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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