

Product datasheet

Anti-proNGF antibody [EP1320Y] ab52918

Recombinant RabMAb

★★★★☆ 4 Abreviews 76 References 10 Images

Overview

Product name	Anti-proNGF antibody [EP1320Y]
Description	Rabbit monoclonal [EP1320Y] to proNGF
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB, IHC-P
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human fetal brain, cerebellum, HeLa, MCF-7, and MDA-MB-231 cell lysates. Mouse brain, cerebellum, and thyroid cell lysates; Rat brain, cerebellum, and thyroid cell lysates. IHC-P: Human brain, human cerebral cortex. ICC/IF: U87-MG cells.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

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. Avoid freeze / thaw cycle.
Storage buffer	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 59% PBS, 40% Glycerol, 0.05% BSA</p>
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP1320Y

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab52918 in the following tested applications.

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

Application	Abreviews	Notes
ICC/IF		1/300.
WB	★★★★★ (1)	1/1000. Predicted molecular weight: 27 kDa. For unpurified, use 1/500.
IHC-P	★★★★★ (3)	1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See <u>IHC antigen retrieval protocols</u> .

Target

Function

Nerve growth factor is important for the development and maintenance of the sympathetic and sensory nervous systems. Extracellular ligand for the NTRK1 and NGFR receptors, activates cellular signaling cascades through those receptor tyrosine kinase to regulate neuronal proliferation, differentiation and survival. Inhibits metalloproteinase dependent proteolysis of platelet glycoprotein VI (PubMed:20164177).

Involvement in disease

Neuropathy, hereditary sensory and autonomic, 5

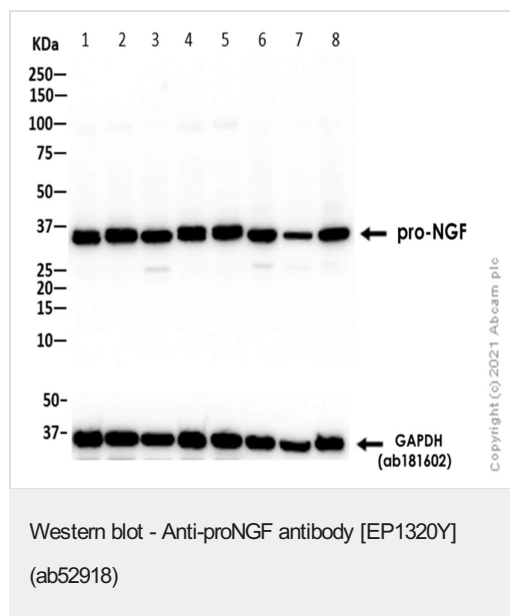
Sequence similarities

Belongs to the NGF-beta family.

Cellular localization

Secreted.

Images



All lanes : Anti-proNGF antibody [EP1320Y] (ab52918) at 1/1000 dilution

Lane 1 : Mouse brain lysate

Lane 2 : Rat brain lysate

Lane 3 : Human cerebellum lysate

Lane 4 : Mouse cerebellum lysate

Lane 5 : Rat cerebellum lysate

Lane 6 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate

Lane 7 : MCF-7 (Human breast adenocarcinoma epithelial cell) whole cell lysate

Lane 8 : MDA-MB-231 (Human breast adenocarcinoma epithelial cell) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Developed using the ECL technique.

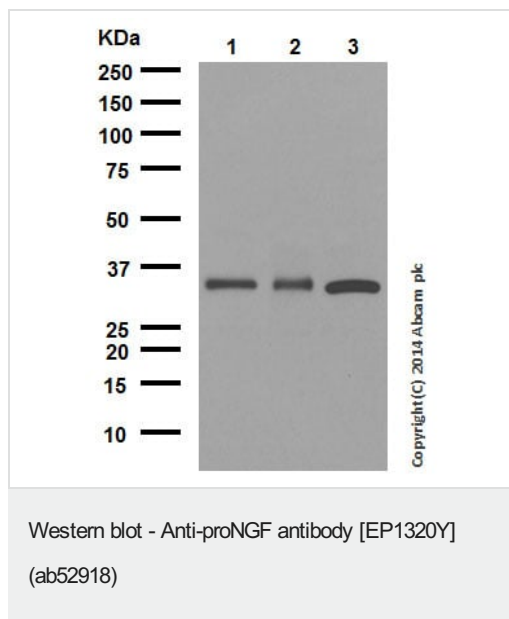
Predicted band size: 27 kDa

Observed band size: 32 kDa

Exposure time: 20 seconds

The positive cell lines (Lanes 7-9) are consistent with the literature: PMID:12944907, Fig1.

Blocking buffer: 5% NFDM/TBST.



All lanes : Anti-proNGF antibody [EP1320Y] (ab52918) at 1/1000 dilution (purified)

Lane 1 : Human fetal brain lysate

Lane 2 : Human fetal thymus lysate

Lane 3 : HeLa cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

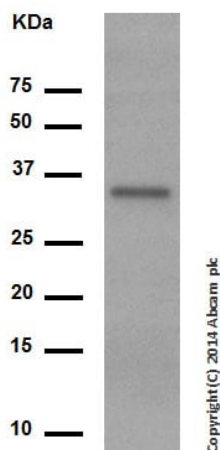
All lanes : HRP conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 27 kDa

Observed band size: 32 kDa

Blocking Buffer: 5% NFDM/TBST

Dilution Buffer: 5% NFDM/TBST



Western blot - Anti-proNGF antibody [EP1320Y]
(ab52918)

Anti-proNGF antibody [EP1320Y] (ab52918) at 1/1000 dilution
(purified) + Mouse thyroid lysate at 20 µg

Secondary

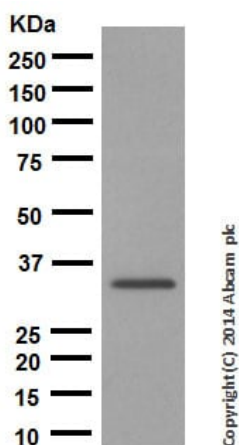
HRP conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 27 kDa

Observed band size: 32 kDa

Blocking Buffer: 5% NFDM/TBST

Dilution Buffer: 5% NFDM/TBST



Western blot - Anti-proNGF antibody [EP1320Y]
(ab52918)

Anti-proNGF antibody [EP1320Y] (ab52918) at 1/2000 dilution
(purified) + Rat thyroid lysate at 20 µg

Secondary

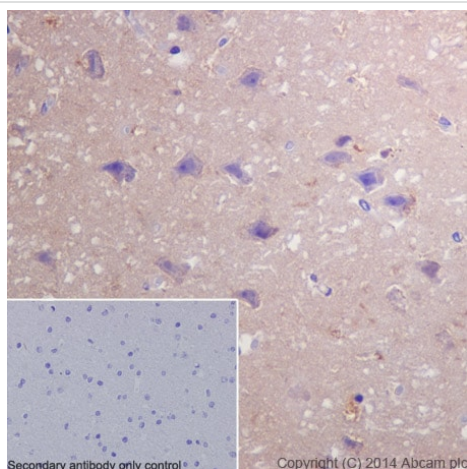
HRP conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 27 kDa

Observed band size: 32 kDa

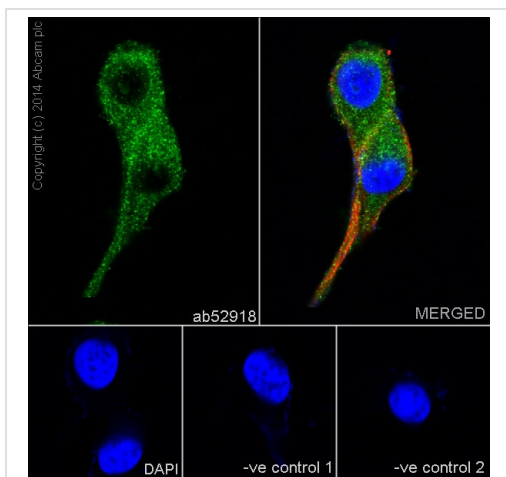
Blocking Buffer: 5% NFDM/TBST

Dilution Buffer: 5% NFDM/TBST



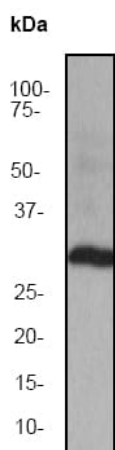
Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-proNGF antibody
[EP1320Y] (ab52918)

Immunohistochemical staining of paraffin embedded
human cerebral cortex with purified ab52918 at a working dilution of
1 in 250. The secondary antibody used is **ab97051** Goat Anti-
Rabbit IgG H&L (HRP) at a dilution of 1/500. The sample is counter-
stained with hematoxylin. Antigen retrieval was performed using Tris-
EDTA buffer, pH 9.0. PBS was used instead of the primary
antibody as the negative control, and is shown in the inset.



Immunocytochemistry/ Immunofluorescence - Anti-proNGF antibody [EP1320Y] (ab52918)

Immunofluorescence staining of U87-MG cells with purified ab52918 at a working dilution of 1 in 300, counter-stained with DAPI. Tubulin was stained with mouse anti-tubulin at a dilution of 1/1000 (**ab7291**) and Alexa Fluor® 594 goat anti-mouse at a dilution of 1/500 (**ab150120**). The secondary antibody was **ab150077** Alexa Fluor® 488 goat anti rabbit, used at a dilution of 1 in 500. The cells were fixed in 4% PFA and permeabilized using 0.1% Triton X 100. The negative controls are shown in the bottom middle and right hand panels - for the first negative control, purified ab52918 was used at a dilution of 1/200 followed by an Alexa Fluor® 555 goat anti-mouse antibody at a dilution of 1/500 and for the second negative control mouse primary antibody (**ab7291**) and anti-rabbit secondary antibody (**ab15007**) were used.



Western blot - Anti-proNGF antibody [EP1320Y] (ab52918)

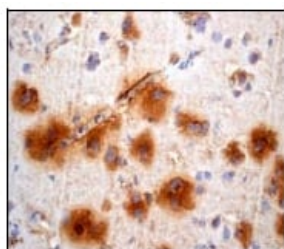
Anti-proNGF antibody [EP1320Y] (ab52918) at 1/500 dilution (unpurified) + fetal thyroid tissue at 10 µg

Secondary

Goat anti rabbit IgG HRP antibody at 1/2000 dilution

Predicted band size: 27 kDa

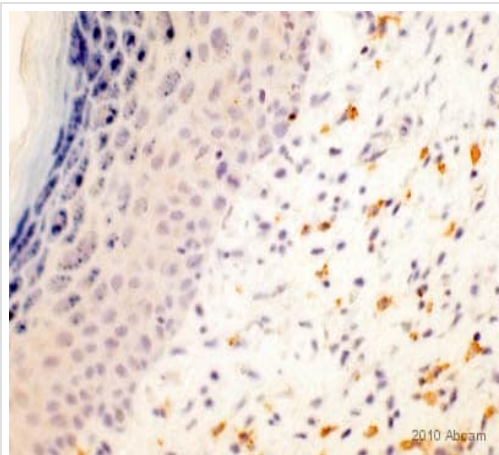
Observed band size: 27 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-proNGF antibody [EP1320Y] (ab52918)

Immunohistochemical staining of paraffin embedded human brain using unpurified ab52918 at 1/50-1/100 dilution.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunohistochemical staining of proNGF mouse tissue sections (formalin/ PFA-fixed paraffin-embedded tissue sections) with unpurified ab52918. The sections were formaldehyde fixed, subjected to heat mediated antigen retrieval and blocked for 10 minutes at 25°C. The primary antibody was diluted 1/50 and incubated with the sample for 1 hour at 25°C. An HRP polymer anti-rabbit IgG system was used undiluted, as the secondary antibody.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-proNGF antibody [EP1320Y] (ab52918)

This image is courtesy of an anonymous Abreview.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-proNGF antibody [EP1320Y] (ab52918)

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

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