abcam

Product datasheet

Anti-proNGF antibody [EP1320Y] ab52918

リコンビナント RabMAb

4 Abreviews 76 References 画像数 10

製品の概要

製品名	Anti-proNGF antibody [EP1320Y]
製品の詳細	Rabbit monoclonal [EP1320Y] to proNGF
由来種	Rabbit
アプリケーション	**適用あり:** ICC/IF, WB, IHC-P
種交差性	**交差種:** Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	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.
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EP1320Y

アイソタイプ IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab52918の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
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 **IHC antigen retrieval protocols**.

ターゲット情報

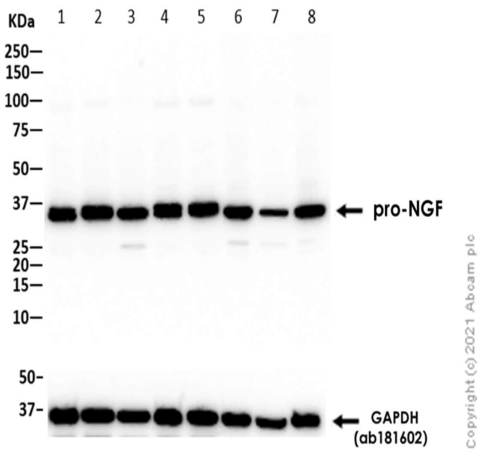
機能 Nerve growth factor is important for the development and maintenance of the sympathetic and sensory nervous systems. Extracellular ligand for the NTRK1 and NGFR receptors, activates cellular signaling cascades through those receptor tyrosine kinase to regulate neuronal proliferation, differentiation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

関連疾患 Neuropathy, hereditary sensory and autonomic, 5

配列類似性 Belongs to the NGF-beta family.

細胞内局在 Secreted.

画像



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

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

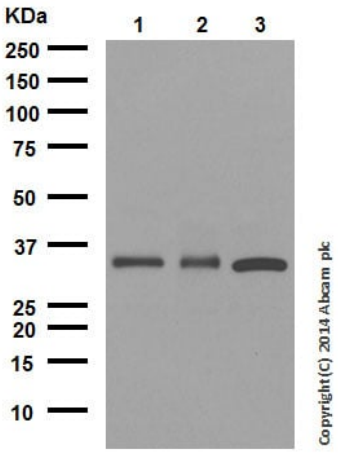
Developed using the ECL technique.

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.



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

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

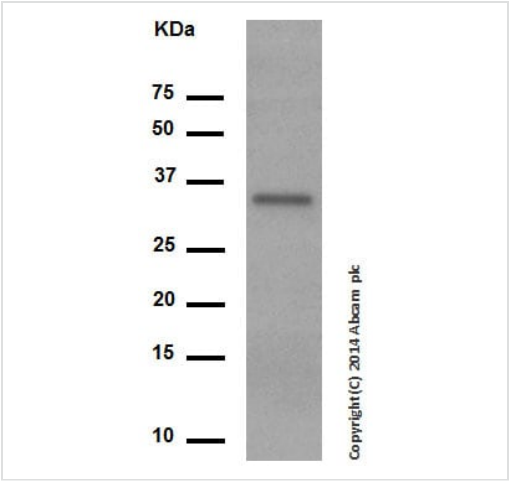
Lysates/proteins at 20 µg per lane.

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

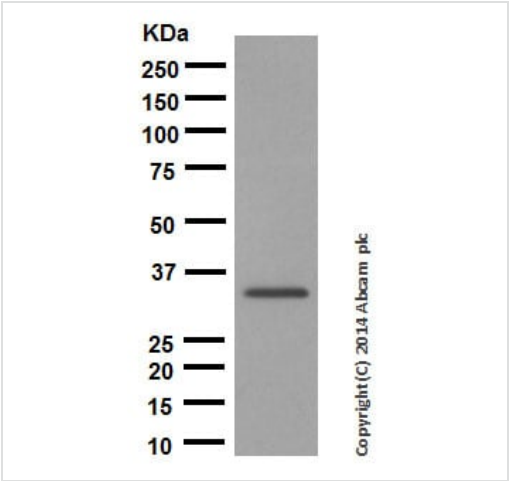
HRP conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

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

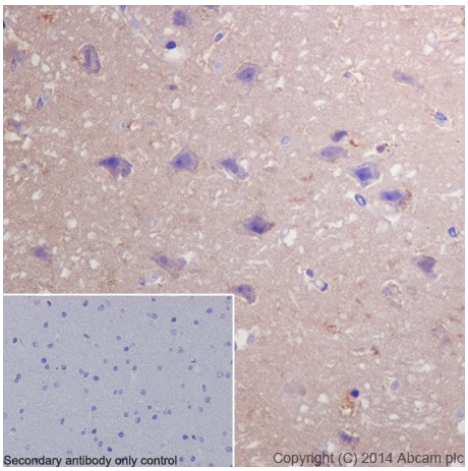
HRP conjugated goat anti-rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 27 kDa

Observed band size: 32 kDa

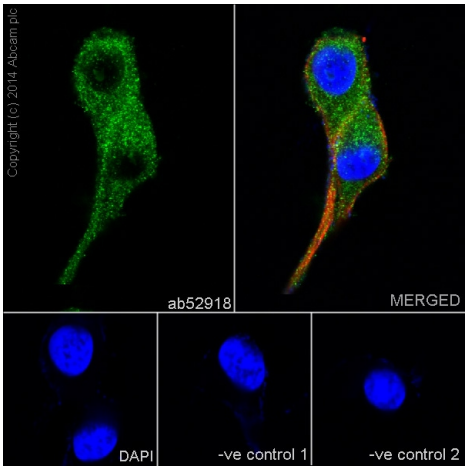
Blocking Buffer: 5% NFDM/TBST

Dilution Buffer: 5% NFDM/TBST



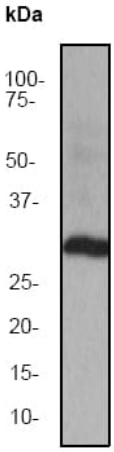
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-proNGF antibody [EP1320Y] (ab52918)

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 perfomed 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)

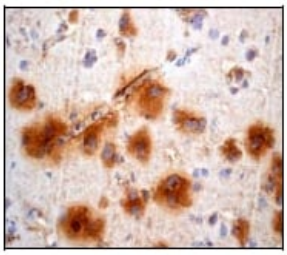
Anti-proNGF antibody [EP1320Y] (ab52918) at 1/500 dilution (unpurified) + fetal thyroid tissue at 10 µg

Secondary

Goat anti rabbit IgG HRP antibody at 1/2000 dilution

Predicted band size: 27 kDa

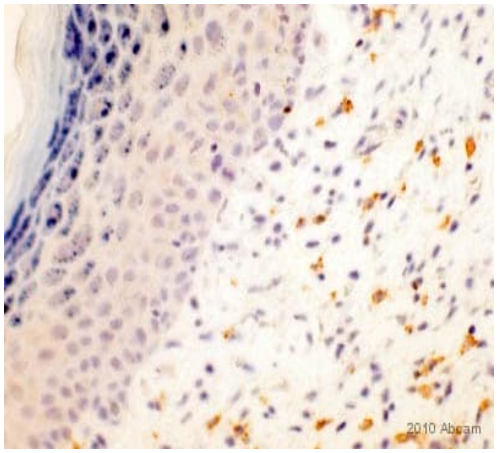
Observed band size: 27 kDa



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.



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

This image is courtesy of an anonymous Abreview.

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.

Anti-proNGF antibody [EP1320Y] (ab52918)

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