abcam

ab270992

Anti-CNTF antibody [EPR24553-104]

Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR24553-104
Purification technique	Affinity purification Protein A
Concentration	0.481 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Mouse
Dilution info	1/30
Notes	-

Species	Rat

Dilution info	1/30
Notes	-

Not recommended

Species	Human
Dilution info	-
Notes	-

WB

Tested

Species	Mouse
Dilution info	1/1000
Notes	-

Species	Rat
Dilution info	1/1000
Notes	-

Not recommended

Species	Human
Dilution info	-
Notes	-

IHC-Fr

Tested

Species	Mouse
Dilution info	1/100
Notes	Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).

Species	Rat

Dilution info	1/100
Notes	Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).

Not recommended

Species	Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Rat
Dilution info	1/500
Notes	-

Expected

Species	Mouse
Dilution info	1/500
Notes	-

Not recommended

Species	Human
Dilution info	-
Notes	-

IHC-P

Tested

Species	Mouse
Dilution info	1/500

Notes	-

Species	Rat
Dilution info	1/500
Notes	-

Not recommended

Species	Human
Dilution info	-
Notes	-

ICC

Not recommended

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

Target data

See full target information Cntf

Function	CNTF is a survival factor for various neuronal cell types. Seems to prevent the degeneration of motor axons after axotomy.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C

Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
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 batch production

For more information, read more on recombinant antibodies.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

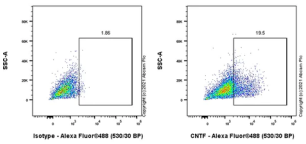
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

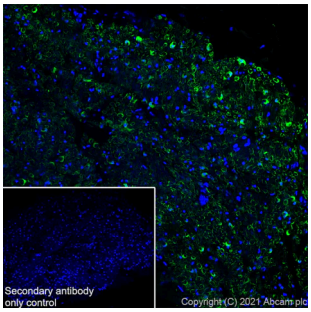
12 product images



Flow Cytometry (Intracellular) - Anti-CNTF antibody [EPR24553-104] (ab270992)

CNTF Flow Cytometry (Intracellular) staining using rabbit Anti-CNTF antibody

Flow cytometric analysis of 4% paraformaldehyde fixed, 0.1% Tween-20 permeabilised Rat primary neural/glia cells labeling CNTF with ab270992 at 1/500 dilution (0.1µg)/ (Right image) compared with an isotype control Rabbit monoclonal IgG (ab172730)/ (Left image) and an unlabeled control cells without incubation with primary antibody and secondary antibody (Blue). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077), at 1/2000 dilution was used as the secondary antibody.

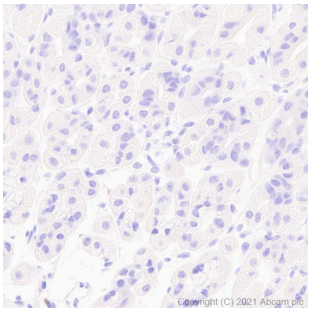


Immunohistochemistry (Frozen sections) - Anti-CNTF antibody [EPR24553-104] (ab270992)

CNTF Immunohistochemistry (Frozen sections) staining using rabbit Anti-CNTF antibody

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Rat sciatic nerve tissue labeling CNTF with ab270992 at 1/100 dilution (4.81 ug/ml) followed by ab150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution (Green). Positive staining on rat sciatic nerve is observed. The nuclear counterstain was DAPI (Blue).
Secondary antibody control: Secondary antibody is ab150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution.

Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).

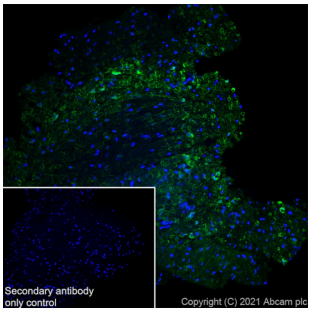


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CNTF antibody [EPR24553-104] (ab270992)

CNTF Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CNTF antibody

Immunohistochemical analysis of paraffin-embedded Mouse stomach tissue labelling CNTF with ab270992 at 1/500 dilution (0.962 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). **Negative control**: No staining in mouse stomach. The section was incubated with ab270992 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.
Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

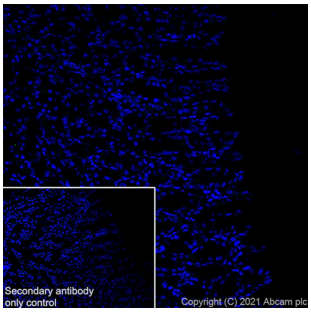


Immunohistochemistry (Frozen sections) - Anti-CNTF antibody [EPR24553-104] (ab270992)

CNTF Immunohistochemistry (Frozen sections) staining using rabbit Anti-CNTF antibody

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Mouse sciatic nerve tissue labeling CNTF with ab270992 at 1/100 dilution (4.81 ug/ml) followed by ab150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution (Green). Positive staining on mouse sciatic nerve is observed. The nuclear counterstain was DAPI (Blue).
Secondary antibody control: Secondary antibody is ab150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution.

Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).

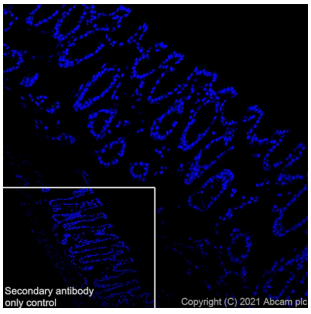


Immunohistochemistry (Frozen sections) - Anti-CNTF antibody [EPR24553-104] (ab270992)

CNTF Immunohistochemistry (Frozen sections) staining using rabbit Anti-CNTF antibody

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Rat stomach tissue labeling CNTF with ab270992 at 1/100 dilution (4.81 ug/ml) followed by ab150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution (Green). **Negative control**: No staining on rat stomach (PMID: 12855189) is observed. The nuclear counterstain was DAPI (Blue).
Secondary antibody control: Secondary antibody is ab150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution.

Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).

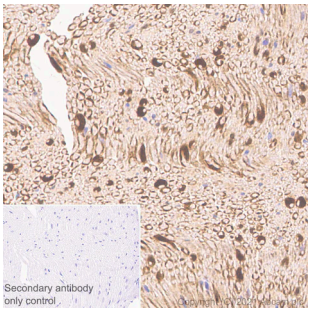


Immunohistochemistry (Frozen sections) - Anti-CNTF antibody [EPR24553-104] (ab270992)

CNTF Immunohistochemistry (Frozen sections) staining using rabbit Anti-CNTF antibody

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen Mouse stomach tissue labeling CNTF with ab270992 at 1/100 dilution (4.81 ug/ml) followed by ab150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution (Green). **Negative control**: No staining on mouse stomach (PMID: 12855189) is observed. The nuclear counterstain was DAPI (Blue).
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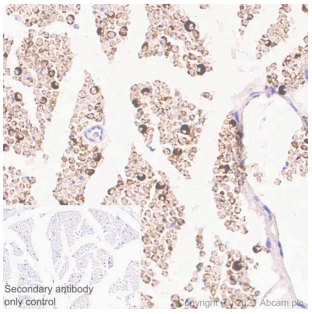


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CNTF antibody [EPR24553-104] (ab270992)

CNTF Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CNTF antibody

Immunohistochemical analysis of paraffin-embedded Mouse sciatic nerve tissue labelling CNTF with ab270992 at 1/500 dilution (0.962 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Cytoplasmic staining in mouse sciatic nerve. The section was incubated with ab270992 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.
Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.

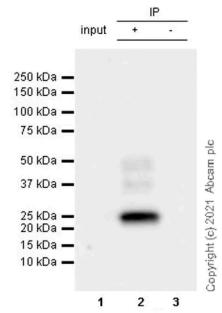


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CNTF antibody [EPR24553-104] (ab270992)

CNTF Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CNTF antibody

Immunohistochemical analysis of paraffin-embedded Rat sciatic nerve tissue labelling CNTF with ab270992 at 1/500 dilution (0.962 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Cytoplasmic staining in rat sciatic nerve. The section was incubated with ab270992 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.
Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins.



Immunoprecipitation - Anti-CNTF antibody [EPR24553-104] (ab270992)

CNTF was immunoprecipitated from 0.35 mg Mouse sciatic nerve lysate with ab270992 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab270992 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP)(ab131366) was used at 1/5000 dilution.
Lane 1: Mouse sciatic nerve lysate 10ug

Lane 2: ab270992 IP in Mouse sciatic nerve lysate

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab270992 in mouse sciatic nerve lysate

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

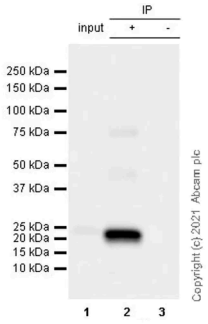
Exposure time: 10 seconds.

Bands at 37, 50KD are likely to be multimer forms of CNTF (PMID: 9236223).

All lanes:
Immunoprecipitation - Anti-CNTF antibody [EPR24553-104] (ab270992)

Predicted band size: 23 kDa

Observed band size: 22 kDa, 37 kDa, 50 kDa



Immunoprecipitation - Anti-CNTF antibody [EPR24553-104] (ab270992)

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Blocking and dilution buffer and concentration: 5% NFDM/TBST.

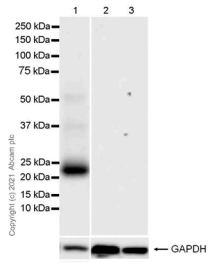
Exposure time: 10 seconds.

Bands at 40, 75KD are likely to be multimer forms of CNTF (PMID: 9236223).

All lanes:
Immunoprecipitation - Anti-CNTF antibody [EPR24553-104] (ab270992)

Predicted band size: 23 kDa

Observed band size: 22 kDa, 37 kDa, 50 kDa



Western blot - Anti-CNTF antibody [EPR24553-104] (ab270992)

CNTF Western blot staining using rabbit Anti-CNTF antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST.
Bands at 37, 50KD are likely to be multimer forms of CNTF (PMID: 9236223).

Negative control: Brain, stomach (PMID: 12855189).

Exposure time: 59 seconds.

All lanes:
Western blot - Anti-CNTF antibody [EPR24553-104] (ab270992) at 1/1000 dilution

Lane 1:
Mouse sciatic nerve lysate at 20 µg

Lane 2:
Mouse brain lysate at 20 µg

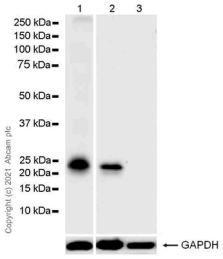
Lane 3:
Mouse stomach lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/10000 dilution

Predicted band size: 23 kDa

Observed band size: 22 kDa, 37 kDa, 50 kDa



Western blot - Anti-CNTF antibody [EPR24553-104] (ab270992)

CNTF Western blot staining using rabbit Anti-CNTF antibody

Blocking and diluting buffer and concentration: 5% NFDM/TBST.
Negative control: Stomach (PMID: 12855189).

Exposure time: 81 seconds.

All lanes:
Western blot - Anti-CNTF antibody [EPR24553-104] (ab270992) at 1/1000 dilution

Lane 1:
Rat sciatic nerve lysate at 20 µg

Lane 2:
Rat spinal cord lysate at 20 µg

Lane 3:
Rat stomach lysate at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/10000 dilution

Predicted band size: 23 kDa

Observed band size: 22 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.