abcam

ab305245

Anti-CNTFR antibody [EPR24672-25]

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	EPR24672-25
Purification technique	Affinity purification Protein A
Concentration	0.494 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Human
Dilution info	1/1000
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Human
Dilution info	-
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Mouse
Dilution info	-
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Rat
Dilution info	-
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

ICC/IF

Tested

Species	Human
Dilution info	1/50
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt

Tested

Species	Human
Dilution info	1/500
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

IP

Tested

Species	Human
Dilution info	1/30
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information CNTFR

Function Binds to CNTF. The alpha subunit provides the receptor specificity. Receptor for heterodimeric neurotropic cytokine composed of CLCF1/CLC and CRLF1/CLF-1 (PubMed:26858303). Acts as a receptor for the neuroprotective peptide humanin as part of a complex with IL6ST/GP130 and IL27RA/WSX1 (PubMed:19386761).

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

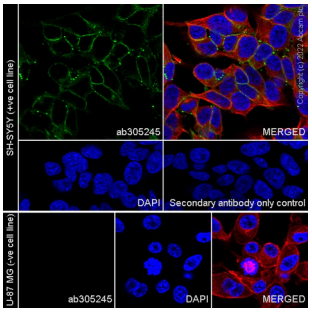
We do not recommend this combination. It is not covered by our product promise.

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.

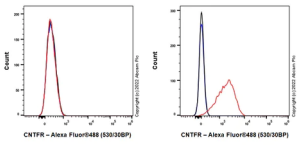
Full details and terms and conditions can be found here:
Terms & Conditions.

6 product images



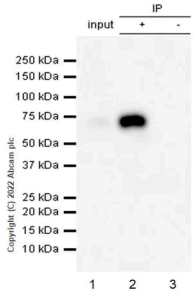
Immunocytochemistry/ Immunofluorescence - Anti-CNTFR antibody [EPR24672-25] (ab305245)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized SH-SY5Y (human neuroblastoma epithelial cell) cells labelling CNTFR with ab305245 at 1/50 dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 dilution (Green). Confocal image showing mainly membranous staining in SH-SY5Y cell line. Negative control: U-87 MG (PMID: 23061382). Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8). ab195889 Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue). Secondary antibody only control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution.



Flow Cytometry - Anti-CNTFR antibody [EPR24672-25] (ab305245)

Flow cytometric analysis of U-87 MG (human glioblastoma-astrocytoma epithelial cell, Left) / SH-SY5Y (human neuroblastoma epithelial cell, Right) cells labelling CNTFR with ab305245 at 1/500 dilution (0.1ug) (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/2000 dilution was used as the secondary antibody. Gated on viable cells.Negative control: U-87 MG (PMID: 23061382).



Immunoprecipitation - Anti-CNTFR antibody [EPR24672-25] (ab305245)

CNTFR was immunoprecipitated from 0.35 mg SH-SY5Y (human neuroblastoma epithelial cell) whole cell lysate 10 µg with ab305245 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab305245. VeriBlot for IP secondary antibody(HRP) (ab131366) was used at 1/5000 dilution.
Lane 1: SH-SY5Y (human neuroblastoma epithelial cell) whole cell lysate 10 µg

Lane 2: ab305245 at 1/30 IP in SH-SY5Y whole cell lysate 10 µg

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab305245 in SH-SY5Y whole cell lysate

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

This blot was developed using a high sensitivity ECL substrate. The high-sensitivity ECL substrate used allows for the detection of proteins in the mid-femtogram range.

All lanes:
Immunoprecipitation - Anti-CNTFR antibody [EPR24672-25] (ab305245) at 1/30 dilution

All lanes:
SH-SY5Y (human neuroblastoma epithelial cell)

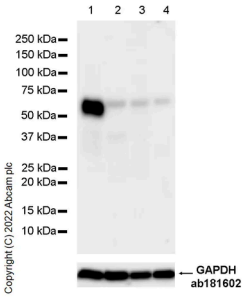
Secondary

All lanes:
Immunoprecipitation - VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/5000 dilution

Developed using the ECL technique.

Observed band size: 60 kDa

Exposure time: 10s



Western blot - Anti-CNTFR antibody [EPR24672-25] (ab305245)

Blocking and diluting buffer and concentration: 5% NFDM/TBST.
Low expression: heart, kidney, spleen (PMID:1648265)

This blot was developed using a high sensitivity ECL substrate. The high-sensitivity ECL substrate used allows for the detection of proteins in the mid-femtogram range.

All lanes:
Western blot - Anti-CNTFR antibody [EPR24672-25] (ab305245) at 1/1000 dilution

Lane 1:
Human cerebellum tissue lysate at 20 µg

Lane 2:
Human heart tissue lysate at 20 µg

Lane 3:
Human kidney tissue lysate at 20 µg

Lane 4:
Human spleen tissue lysate at 20 µg

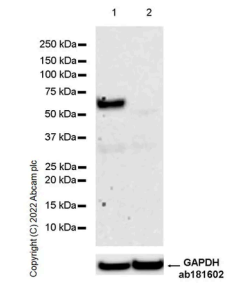
Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Developed using the ECL technique.

Observed band size: 60 kDa

Exposure time: 37s



Western blot - Anti-CNTFR antibody [EPR24672-25] (ab305245)

Blocking and diluting buffer and concentration: 5% NFDM/TBST
Negative control: U-87 MG (PMID:23061382)

This blot was developed using a high sensitivity ECL substrate. The high-sensitivity ECL substrate used allows for the detection of proteins in the mid-femtogram range.

All lanes:
Western blot - Anti-CNTFR antibody [EPR24672-25] (ab305245) at 1/1000 dilution

Lane 1:
SH-SY5Y (human neuroblastoma epithelial cell), whole cell lysate at 20 µg

Lane 2:
U-87 MG (human glioblastoma-astrocytoma epithelial cell), whole cell lysate at 20 µg

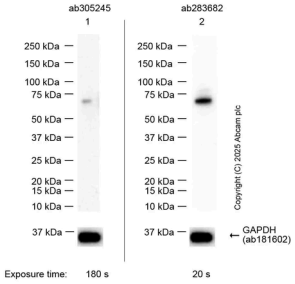
Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

Developed using the ECL technique.

Observed band size: 60 kDa

Exposure time: 180s



Western blot - Anti-CNTFR antibody [EPR24672-25] (ab305245)

CNTFR Western blot staining of SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysate using rabbit Anti-CNTFR antibody

Blocking and diluting buffer and concentration: 5% NFDM /TBST. ab181602 was used as a GAPDH loading control at 1/1000000 dilution. Exposure time: Lane 1: 180 seconds Lane 2: 20 seconds The sensitivity of ab305245 is lower than that of ab283682, we recommend customers to choose ab283682 when performing WB.
Lane 1:
Western blot - Anti-CNTFR antibody [EPR24672-25] (ab305245) at 1/1000 dilution

Lane 2:
Western blot - Anti-CNTFR antibody [EPR24672-166] (ab283682) at 1/1000 dilution

All lanes:
SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysate at 20 µg

Secondary

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

Observed band size: 60 kDa

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