abcam

Product datasheet

Anti-TrkC antibody [EPR22959-40] ab240651

Recombinant RabMAb

14 Images

Overview

Product name	Anti-TrkC antibody [EPR22959-40]
Description	Rabbit monoclonal [EPR22959-40] to TrkC
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P, IP **Unsuitable for:** Flow Cyt,Flow Cyt (Intra),ICC/IF or IHC-Fr
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human hypothalamus tissue lysate, Human cerebellum, Human hypothalamus, Mouse brain, Rat brain, Mouse cerebellum, Rat cerebellum, 293T transfected with human TrkC expression vector containing a myc-His-tag®, whole cell lysate. IHC-P: Human cerebrum, Human astrocytoma, Mouse cerebrum, Rat colon, HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) transfected with TrkC expression vector containing a myc-His-tag®. IP: Mouse brain, Rat brain tissue lysate.
General notes	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**.

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	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA

Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR22959-40
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab240651 in the following tested applications.

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

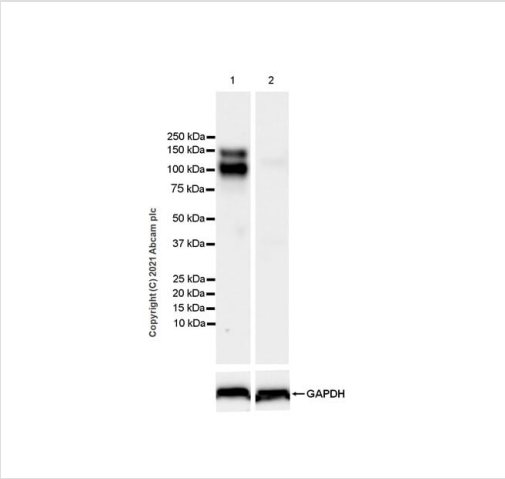
Application	Abreviews	Notes
WB		1/1000. Predicted molecular weight: 94 kDa.
IHC-P		1/200. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IP		1/30.

Application notes Is unsuitable for Flow Cyt,Flow Cyt (Intra),ICC/IF or IHC-Fr.

Target

Function	Receptor for neurotrophin-3 (NT-3). This is a tyrosine-protein kinase receptor. Known substrates for the trk receptors are SHC1, PI-3 kinase, and PLCG1. The different isoforms do not have identical signaling properties.
Tissue specificity	Widely expressed but mainly in nervous tissue. Isoform B is expressed at higher levels in adult brain than in fetal brain.
Sequence similarities	Belongs to the protein kinase superfamily. Tyr protein kinase family. Insulin receptor subfamily. Contains 2 Ig-like C2-type (immunoglobulin-like) domains. Contains 2 LRR (leucine-rich) repeats. Contains 1 LRRCT domain. Contains 1 protein kinase domain.
Post-translational modifications	Ligand-mediated auto-phosphorylation.
Cellular localization	Membrane.

Images



Western blot - Anti-TrkC antibody [EPR22959-40] (ab240651)

All lanes : Anti-TrkC antibody [EPR22959-40] (ab240651) at 1/1000 dilution

Lane 1 : Human hypothalamus tissue lysate at 20 µg
Lane 2 : Human liver tissue lysate at 40 µg

Secondary
All lanes : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

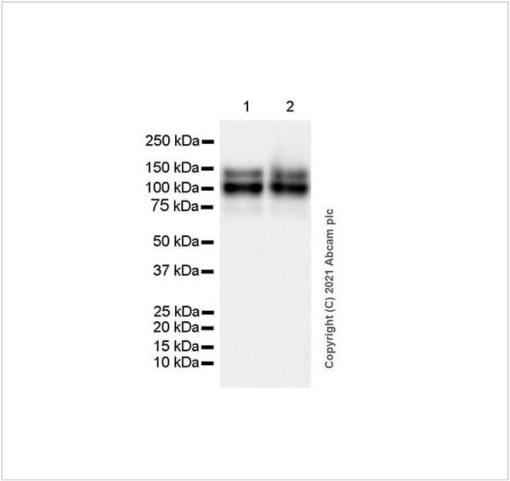
Predicted band size: 94 kDa
Observed band size: 145,100 kDa

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

The observed MW are consistent with what has been described in the literature (PMID: 17828769).

Negative control: liver (PMID: 7823156).

Exposure time: 15 seconds



Western blot - Anti-TrkC antibody [EPR22959-40] (ab240651)

All lanes : Anti-TrkC antibody [EPR22959-40] (ab240651) at 1/1000 dilution

Lane 1 : Human cerebellum tissue lysate
Lane 2 : Human hypothalamus tissue lysate

Lysates/proteins at 20 µg per lane.

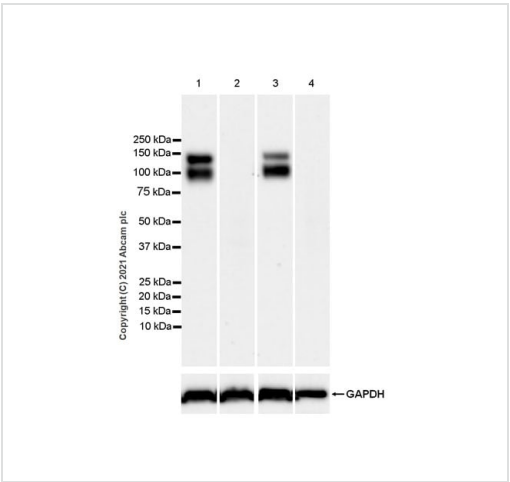
Secondary
All lanes : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Predicted band size: 94 kDa
Observed band size: 145,100 kDa

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

The observed MW are consistent with what has been described in the literature (PMID: 17828769).

Exposure time: 8 seconds



Western blot - Anti-TrkC antibody [EPR22959-40] (ab240651)

All lanes : Anti-TrkC antibody [EPR22959-40] (ab240651) at 1/1000 dilution

Lane 1 : Mouse brain tissue lysate at 20 µg
Lane 2 : Mouse liver tissue lysate at 40 µg
Lane 3 : Rat brain tissue lysate at 20 µg
Lane 4 : Rat liver tissue lysate at 40 µg

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

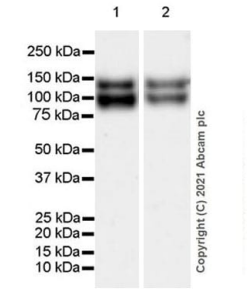
Predicted band size: 94 kDa
Observed band size: 145,100 kDa

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

The observed MW are consistent with what has been described in the literature (PMID: 17828769).

Negative control: liver (PMID: 7823156).

Exposure time: 37 seconds



Western blot - Anti-TrkC antibody [EPR22959-40] (ab240651)

All lanes : Anti-TrkC antibody [EPR22959-40] (ab240651) at 1/1000 dilution

Lane 1 : Mouse cerebellum tissue lysate
Lane 2 : Rat cerebellum tissue lysate

Lysates/proteins at 20 µg per lane.

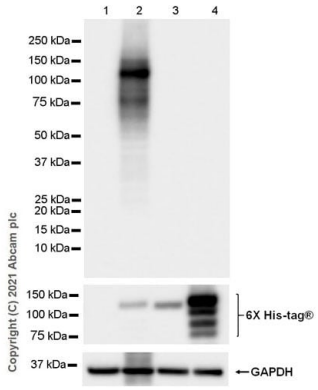
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 94 kDa
Observed band size: 145,100 kDa

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

The observed MW are consistent with what has been described in the literature (PMID: 17828769).

Exposure time: 37 seconds



Western blot - Anti-TrkC antibody [EPR22959-40] (ab240651)

All lanes : Anti-TrkC antibody [EPR22959-40] (ab240651) at 1/1000 dilution

Lane 1 : 293T (human embryonic kidney) transfected with an empty vector (vector control) containing a myc-His-tag®, whole cell lysate
Lane 2 : 293T transfected with human TrkC expression vector containing a myc-His-tag®, whole cell lysate
Lane 3 : 293T transfected with human TrkA expression vector containing a myc-His-tag®, whole cell lysate
Lane 4 : 293T transfected with human TrkB expression vector containing a myc-His-tag®, whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at

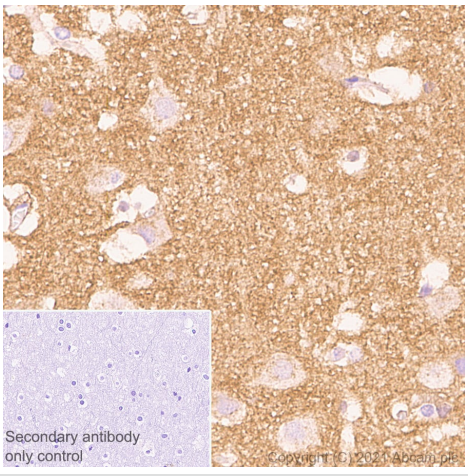
1/100000 dilution

Predicted band size: 94 kDa
Observed band size: 145 kDa

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

This antibody does not cross-react with human TrkA and TrkB.

Exposure time: 5.5 seconds

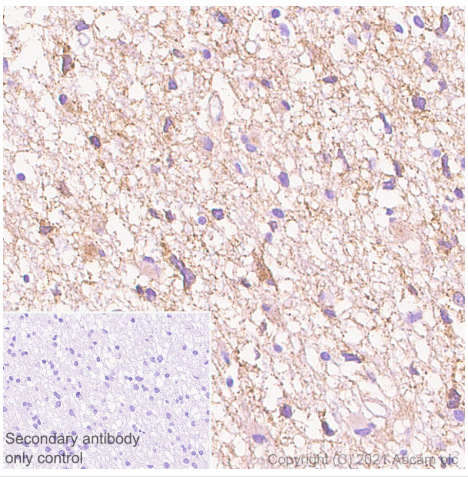


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TrkC antibody [EPR22959-40] (ab240651)

Immunohistochemical analysis of paraffin-embedded Human cerebrum tissue labelling TrkC with ab240651 at 1/200 (2.645 ug/ml) dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Cytoplasmic staining in human cerebrum. The section was incubated with ab240651 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 Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

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

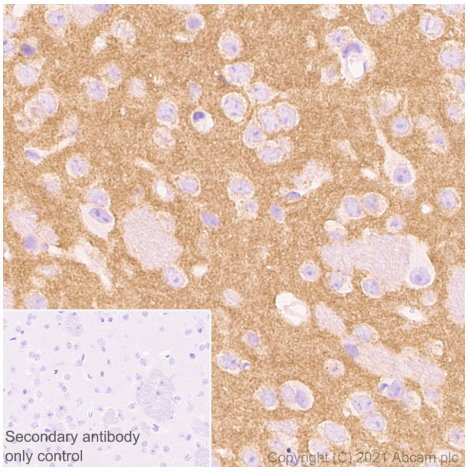


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TrkC antibody [EPR22959-40] (ab240651)

Immunohistochemical analysis of paraffin-embedded Human astrocytoma tissue labelling TrkC with ab240651 at 1/200 (2.645 ug/ml) dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Cytoplasmic staining in human astrocytoma. The section was incubated with ab240651 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 Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

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

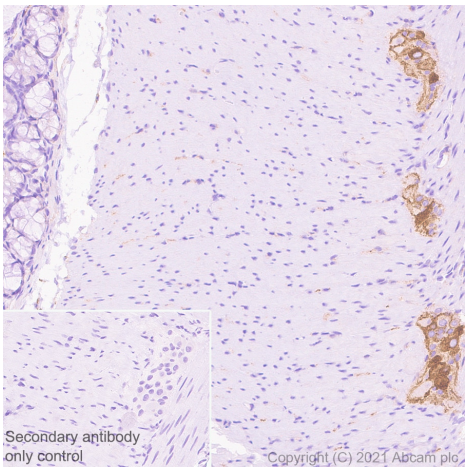


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TrkC antibody [EPR22959-40] (ab240651)

Immunohistochemical analysis of paraffin-embedded Mouse cerebrum tissue labelling TrkC with ab240651 at 1/1000 (0.529 ug/ml) dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Cytoplasmic staining in mouse cerebrum. The section was incubated with ab240651 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 Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

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

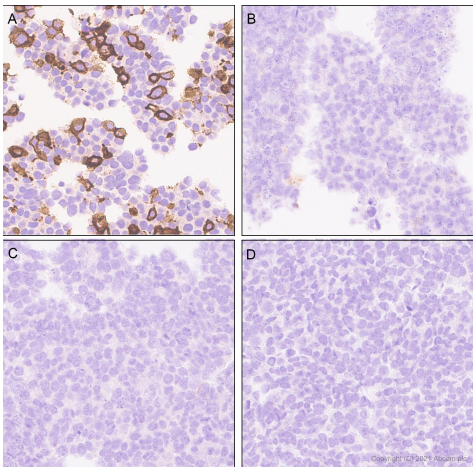


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TrkC antibody [EPR22959-40] (ab240651)

Immunohistochemical analysis of paraffin-embedded Rat colon tissue labelling TrkC with ab240651 at 1/1000 (0.529 ug/ml) dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Cytoplasmic staining on myenteric plexus of rat colon. The section was incubated with ab240651 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 Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

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



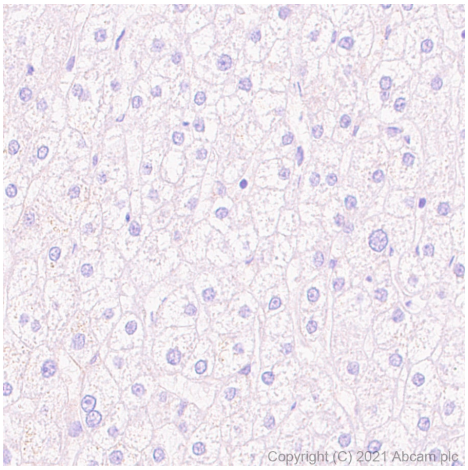
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TrkC antibody [EPR22959-40] (ab240651)

Immunohistochemical analysis of paraffin-embedded HEK-293T tissue labelling TrkC with ab240651 at 1/1000 (0.529 ug/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Positive staining on (A) HEK-293T transfected with TrkC expression vector. No staining on (B) HEK-293T transfected with a TrkA expression vector, (C) HEK-293T transfected with TrkB expression vector and (D) HEK-293T transfected with empty vector. The section was incubated with ab240651 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Panel A : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) transfected with TrkC expression vector containing a myc-His-tag®
Panel B: HEK-293T transfected with TrkA vector containing a myc-His-tag®.
Panel C: HEK-293T transfected with TrkB vector containing a myc-His-tag®.
Panel D: HEK-293T transfected with empty vector containing a myc-His-tag®

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



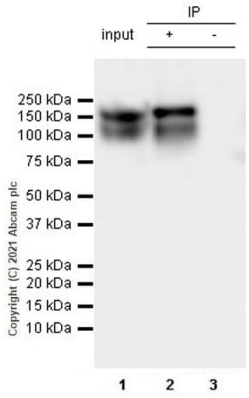
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TrkC antibody [EPR22959-40] (ab240651)

Immunohistochemical analysis of paraffin-embedded Human liver tissue labelling TrkC with ab240651 at 1/200 (2.645 ug/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Negative control: No staining in human liver. The section was incubated with ab240651 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 Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

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



Immunoprecipitation - Anti-TrkC antibody [EPR22959-40] (ab240651)

TrkC was immunoprecipitated from 0.35 mg Mouse brain tissue lysate 10 ug with ab240651 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab240651 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP)(**ab131366**) was used at 1/5000 dilution.

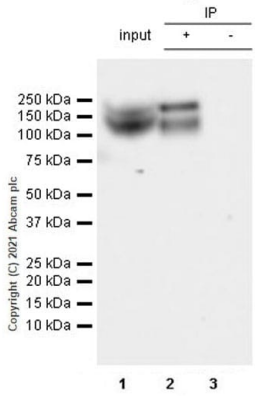
Lane 1: Mouse brain tissue lysate 10 ug

Lane 2: ab240651 IP in Mouse brain tissue lysate

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab240651 in mouse brain tissue lysate

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

Exposure time: 24 seconds



Immunoprecipitation - Anti-TrkC antibody [EPR22959-40] (ab240651)

TrkC was immunoprecipitated from 0.35 mg Rat brain tissue lysate 10 ug with ab240651 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab240651 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP)(**ab131366**) was used at 1/5000 dilution.

Lane 1: Rat brain tissue lysate 10 ug

Lane 2: ab240651 IP in Rat brain tissue lysate

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab240651 in rat brain tissue lysate

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

Exposure time: 24 seconds

Anti-TrkC antibody [EPR22959-40] (ab240651)

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