abcam

Product datasheet

Anti-CSC1 antibody [EPR19814] ab203486

Recombinant RabMAb

★★★★★ 1 Abreviews 1 References 6 Images

Overview

Product name	Anti-CSC1 antibody [EPR19814]
Description	Rabbit monoclonal [EPR19814] to CSC1
Host species	Rabbit
Tested applications	**Suitable for:** WB, ICC/IF, IP
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	**This product was produced with the following immunogens:** Recombinant fragment. This information is proprietary to Abcam and/or its suppliers. Recombinant fragment within Mouse CSC1 aa 200-400. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please **contact** our Scientific Support team to discuss your requirements. Database link: **Q8CBX0** Recombinant fragment within Mouse CSC1 aa 700 to the C-terminus. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please **contact** our Scientific Support team to discuss your requirements. Database link: **Q8CBX0** Run BLAST with ExPASy Run BLAST with NCBI Run BLAST with Run BLAST with
Positive control	WB: Mouse and rat cerebral cortex and cerebellum lysates; CSC1 WT (+/+) mouse brain lysate. ICC/IF: mCSC1 transfected HEK-293T cells. IP: Mouse and rat cerebellum lysates.
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 long term. 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	EPR19814
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab203486 in the following tested applications.

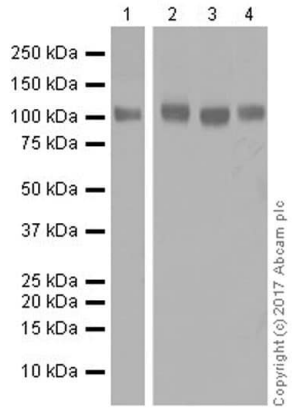
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (1)	1/1000. Detects a band of approximately 93 kDa (predicted molecular weight: 93 kDa).
ICC/IF		1/150.
IP		1/40.

Target

Function	Acts as an osmosensitive calcium-permeable cation channel.
Sequence similarities	Belongs to the CSC1 (TC 1.A.17) family.
Cellular localization	Membrane.

Images



Western blot - Anti-CSC1 antibody [EPR19814] (ab203486)

All lanes : Anti-CSC1 antibody [EPR19814] (ab203486) at 1/1000 dilution

Lane 1 : Mouse cerebral cortex tissue lysate
Lane 2 : Mouse cerebellum tissue lysate
Lane 3 : Rat cerebellum tissue lysate
Lane 4 : Rat cerebral cortex tissue lysate

Lysates/proteins at 20 µg per lane.

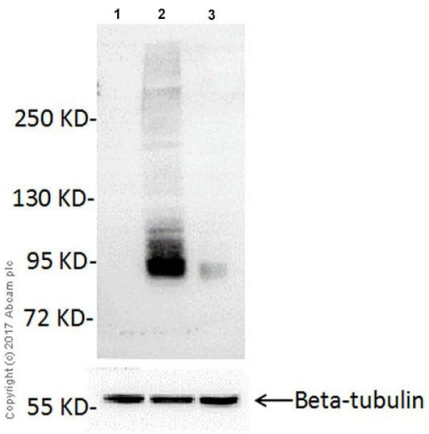
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 93 kDa
Observed band size: 93 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure time: Lane 1: 3 minutes; Lane 2, 3 and 4: 10 seconds.

To avoid the formation of CSC1 high molecule weight aggregates the lysates in sample buffer were not boiled prior to WB testing.



Western blot - Anti-CSC1 antibody [EPR19814] (ab203486)

The Images were kindly provided by our collaborator Dr. Yun Shi, Nanjing University, MARC.

All lanes : Anti-CSC1 antibody [EPR19814] (ab203486) at 1/400 dilution

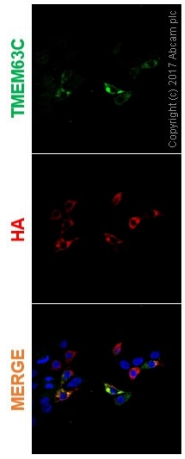
Lane 1 : CSC1 KO (-/-) mouse brain lysate
Lane 2 : CSC1 WT (+/+) mouse brain lysate
Lane 3 : CSC1 heterozygous (+/-) mouse brain lysate

Secondary
All lanes : Goat Anti-Mouse IgG (H+L) HRP at 1/15000 dilution

Predicted band size: 93 kDa
Observed band size: 93 kDa

Exposure time: 30 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.

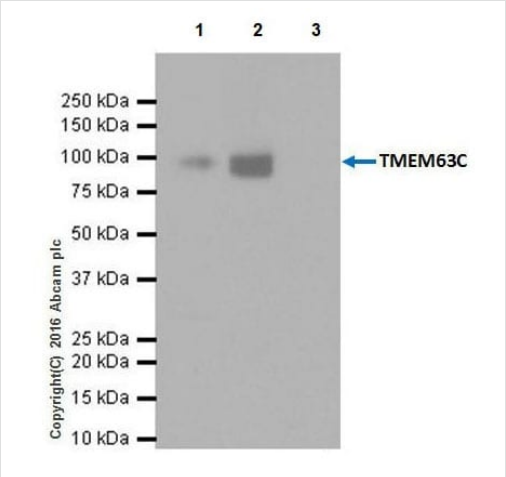


Immunocytochemistry/ Immunofluorescence - Anti-CSC1 antibody [EPR19814] (ab203486)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HA-mCSC1 transfected HEK-293T (Human epithelial cell line from embryonic kidney) cells labeling CSC1 with ab203486 at 1/150 dilution (green). Counterstained with Anti-HA antibody at 1/500 dilution (red).

Positive staining on HA-mCSC1 transfected HEK-293T cells. The images were kindly provided by our collaborator Dr. Yun Shi, Nanjing University MARC.

The nuclear counter stain is DAPI (blue).



Immunoprecipitation - Anti-CSC1 antibody [EPR19814] (ab203486)

CSC1 was immunoprecipitated from 0.35 mg of mouse cerebellum lysate with ab203486 at 1/40 dilution. Western blot was performed from the immunoprecipitate using ab203486 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10000 dilution.

Lane 1: Mouse cerebellum lysate 10 µg (Input).

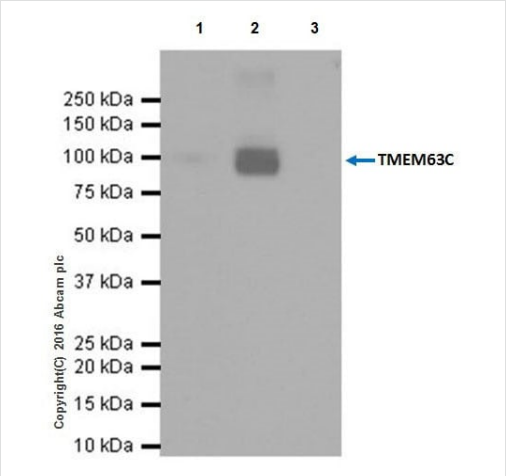
Lane 2: ab203486 IP in mouse cerebellum lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab203486 in mouse cerebellum lysate.

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

Exposure time: 10 seconds.

Note: The sample loaded onto the input lane is not boiled to avoid formation of CSC1 high molecule weight aggregates.



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Lane 1: Rat cerebellum lysate 10 µg (Input).

Lane 2: ab203486 IP in rat cerebellum lysate.

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Anti-CSC1 antibody [EPR19814] (ab203486)

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