

## Product datasheet

# Anti-CSC1 antibody [EPR19814] ab203486

Recombinant **RabMAb**

★★★★★ 1 Abreviews 5 Images

### Overview

<b>Product name</b>	Anti-CSC1 antibody [EPR19814]
<b>Description</b>	Rabbit monoclonal [EPR19814] to CSC1
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC/IF, IP
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat
<b>Immunogen</b>	<p><b>This product was produced with the following immunogens:</b></p> <p>Recombinant fragment within Mouse CSC1 aa 1-100. The exact sequence is proprietary. Database link: <a href="#">Q8CBX0</a></p> <p>Recombinant fragment within Mouse CSC1 aa 200-400. The exact sequence is proprietary. Database link: <a href="#">Q8CBX0</a></p> <p>Recombinant fragment within Mouse CSC1 aa 700 to the C-terminus. The exact sequence is proprietary. Database link: <a href="#">Q8CBX0</a></p> <p style="text-align: center;">  <a href="#">Run BLAST with ExPASy</a>  <a href="#">Run BLAST with NCBI</a>  <a href="#">Run BLAST with Rfam</a> </p>
<b>Positive control</b>	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.
<b>General notes</b>	<p>This product was previously labelled as TMEM63C</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p> <p>This product is a <a href="#">recombinant rabbit monoclonal antibody</a>.</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	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.

<b>Storage buffer</b>	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol, 0.05% BSA
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR19814
<b>Isotype</b>	IgG

## Applications

Our [Abpromise guarantee](#) covers the use of **ab203486** in the following tested applications.

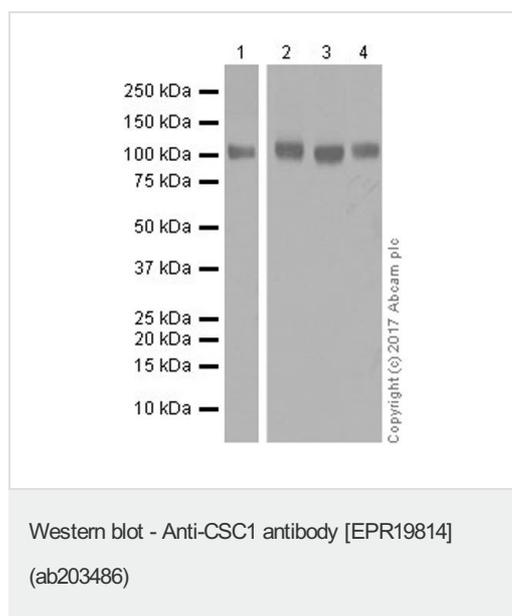
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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

## Target

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

## Images



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

**Lane 1** : Mouse cerebral cortex lysate

**Lane 2** : Mouse cerebellum lysate

**Lane 3** : Rat cerebellum lysate

**Lane 4** : Rat cerebral cortex lysate

Lysates/proteins at 20 µg per lane.

### Secondary

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

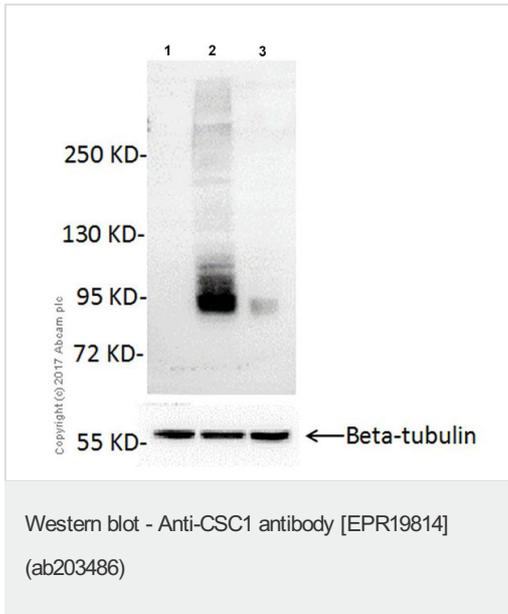
**Predicted band size:** 93 kDa

**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.



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

**Lane 1 :** CSC1 KO (-/-) mouse brain lysates

**Lane 2 :** CSC1 WT (+/+) mouse brain lysates

**Lane 3 :** CSC1 heterozygous (+/-) mouse brain lysates

**Secondary**

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

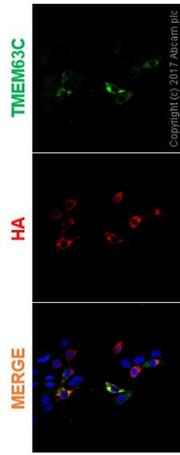
**Predicted band size:** 93 kDa

**Observed band size:** 93 kDa

**Exposure time:** 30 seconds

Blocking/Dilution buffer: 5% NFDm/TBST.

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

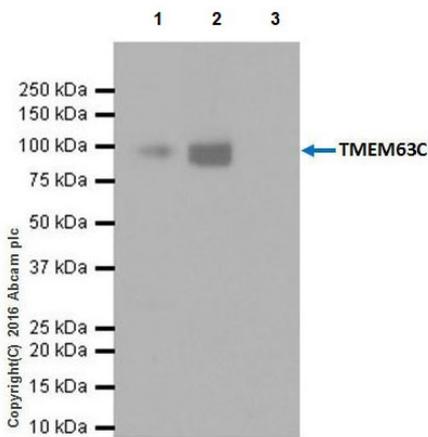


Immunocytochemistry/ Immunofluorescence - Anti-CSC1 antibody [EPR19814] (ab203486)

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).

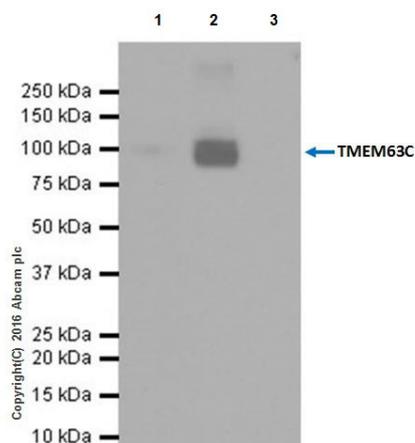
Lane 2: ab203486 IP in mouse cerebellum lysate.

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.



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

CSC1 was immunoprecipitated from 0.35 mg of rat 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: Rat cerebellum lysate 10 µg (Input).

Lane 2: ab203486 IP in rat cerebellum lysate.

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab203486 in rat 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.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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