

Product datasheet

Anti-TMC2 antibody [EPR19446] ab200039

Recombinant RabMAb

5 Images

Overview

Product name	Anti-TMC2 antibody [EPR19446]
Description	Rabbit monoclonal [EPR19446] to TMC2
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF, Flow Cyt (Intra), IHC - Wholemout
Species reactivity	Reacts with: Mouse
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HEK-293 transfected with DDDDK tagged mouse TMC2 expression vector, whole cell lysate. IHC-Wholemout: P21 Mouse cochlea tissue. ICC/IF: HEK-293T cells transfected with DDDDK tagged mouse TMC2 expression vector. Flow Cyt (intra): HEK-293T transfected with DDDDK tagged mouse TMC2 expression vector.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

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	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 0.05% BSA, 40% Glycerol (glycerin, glycerine), PBS</p>
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR19446

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab200039 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		1/5000. Detects a band of approximately 101 kDa (predicted molecular weight: 101 kDa).
ICC/IF		1/100.
Flow Cyt (Intra)		1/50.
IHC - Wholemount		1/100.

Target

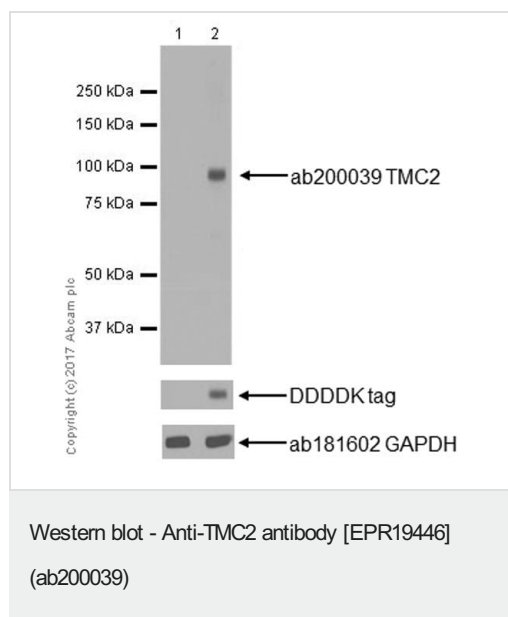
Relevance

The specific function of this gene is unknown; however, expression in the inner ear suggests that it may be crucial for normal auditory function. Mutations in this gene may underlie hereditary disorders of balance and hearing.

Cellular localization

Cell Membrane; Multi-pass membrane protein

Images



All lanes : Anti-TMC2 antibody [EPR19446] (ab200039) at 1/5000 dilution

Lane 1 : HEK-293 (human epithelial cell line from embryonic kidney) transfected with a control vector containing DDDDK tag, whole cell lysate

Lane 2 : HEK-293 (human epithelial cell line from embryonic kidney) transfected with DDDDK tagged mouse TMC2 expression vector, whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

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

Developed using the ECL technique.

Predicted band size: 101 kDa

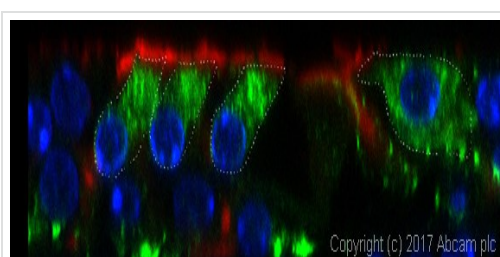
Observed band size: 101 kDa

Exposure time: 5 seconds

Blocking/Dilution buffer: 5% NFDm/TBST.

The Cell lysates were kindly provided by our collaborator Dr. Yun Shi. Nanjing University MARC.

The lysates were not boiled prior to loading on the gel.

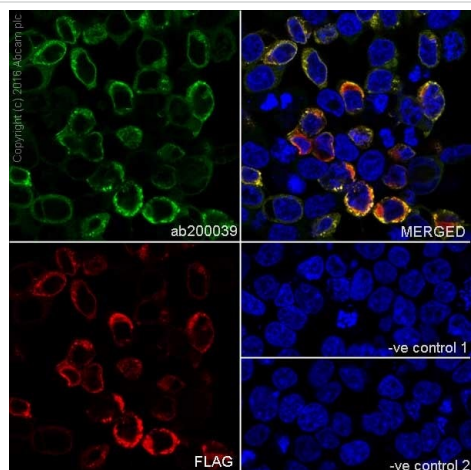


IHC - Wholmount - Anti-TMC2 antibody
[EPR19446] (ab200039)

Immunohistochemical analysis of 4% PFA-fixed whole mount P21 mouse cochlea tissue labeling TMC2 with ab200039 at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (DyLight 488) secondary antibody at 1/500 dilution (green). The results showed cytoplasmic staining on mouse cochlea inner hair cells.

Red color: F-actin.

The data was kindly provided by our collaborator Dr. Yun Shi, Nanjing University MARC.



Immunocytochemistry/ Immunofluorescence - Anti-TMC2 antibody [EPR19446] (ab200039)

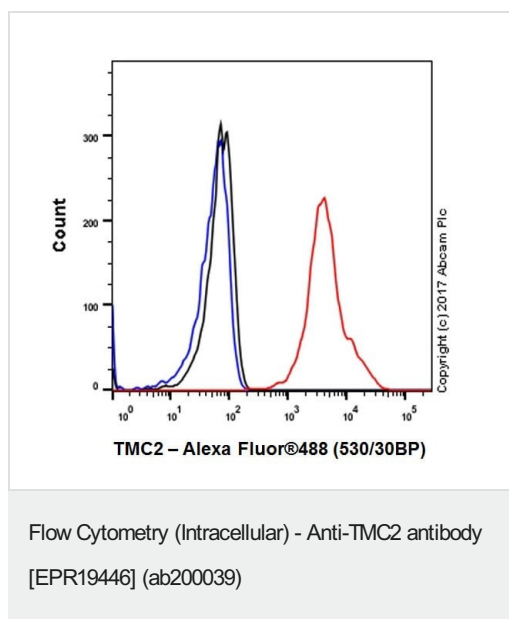
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) cells transfected with DDDDK tagged mouse TMC2 expression vector, labeling TMC2 with ab200039 at 1/100 dilution followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic staining on HEK-293T cells transfected with DDDDK tagged mouse TMC2 expression vector.

The nuclear counter stain is DAPI (blue). FLAG is detected with Anti-FLAG® M2 (red) at 1/1000 dilution, followed by Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) preadsorbed ([ab150120](#)) secondary antibody at 1/1000 dilution.

The negative controls are as follows:





-ve control 1: ab200039 at 1/100 dilution, followed by Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) preadsorbed ([ab150120](#)) secondary antibody at 1/1000 dilution.

-ve control 2: Anti-FLAG® M2 at 1/200 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution.



Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) transfected with DDDDK tagged mouse TMC2 expression vector cell line labeling TMC2 with ab200039 at 1/50 dilution (red) compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**) (black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) at 1/2000 dilution was used as the secondary antibody.

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-TMC2 antibody [EPR19446] (ab200039)

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

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