

Anti-TMC1 antibody [EPR19527] ab199949

リコンビナント RabMAb[®]

1 References [画像数 5](#)

製品の概要

製品名	Anti-TMC1 antibody [EPR19527]
製品の詳細	Rabbit monoclonal [EPR19527] to TMC1
由来種	Rabbit
アプリケーション	適用あり: WB, IHC-Fr, ICC/IF, IP
種交差性	交差種: Mouse, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: HEK-293T whole cell lysate transfected with DDDDK tagged mouse TMC1 . IHC-Fr: P20 mouse cochlea tissue. ICC/IF: Mouse TMC1-GFP transfected HEK-293T cells. IP: HEK-293T whole cell lysate transfected with pcDNA3.1-TMC1.
特記事項	<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>

製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR19527

アプリケーション

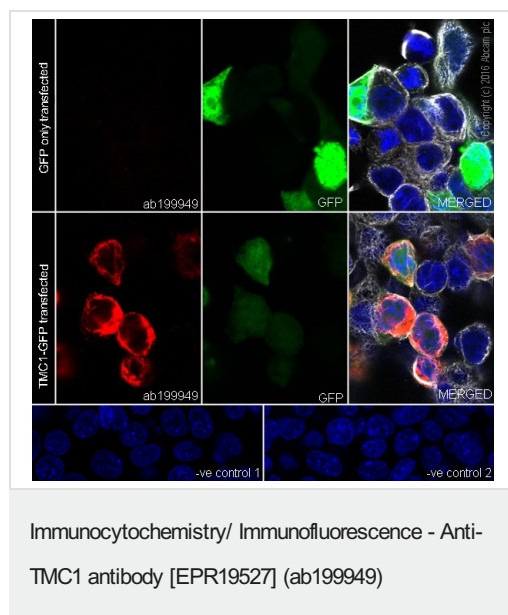
The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab199949の使用に適用されず**
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		1/2000. Detects a band of approximately 87 kDa (predicted molecular weight: 88 kDa).
IHC-Fr		1/50.
ICC/IF		1/500.
IP		1/30.

ターゲット情報

機能	Probable ion channel required for the normal function of cochlear hair cells.
組織特異性	Detected in fetal cochlea, and at low levels in placenta and testis.
関連疾患	Deafness, autosomal dominant, 36 Deafness, autosomal recessive, 7
配列類似性	Belongs to the TMC family.
細胞内局在	Membrane.

画像



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 mouse TMC1-GFP or GFP only, labeling TMC1 with ab199949 at 1/500 dilution, followed by Alexa Fluor[®] 594 Goat anti-Rabbit (**ab150080**) secondary antibody at 1/1000 dilution (red).

The results show cytoplasmic staining on mouse TMC1-GFP transfected HEK-293T cells.

The nuclear counter stain is DAPI (blue).

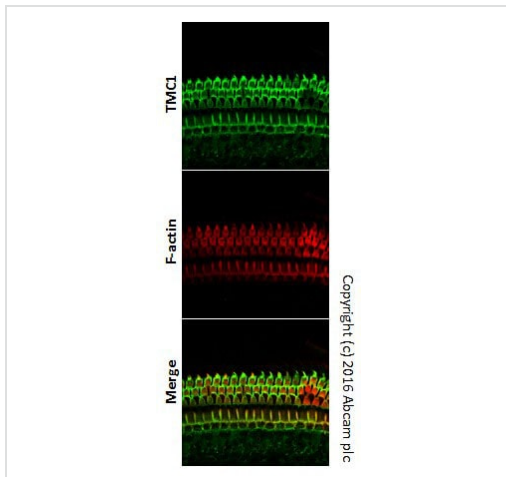
Tubulin is detected with **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution and **ab150115** (Alexa Fluor[®] 647 Goat anti-Mouse secondary (white)) at 1/1000 dilution.

The negative controls are as follows:

-ve control 1: ab199949 at 1/500 dilution followed by **ab150115** (Alexa Fluor[®] 647 Goat anti-Mouse secondary (white)) at 1/1000 dilution.

-ve control 2: **ab7291** (anti-Tubulin mouse mAb) at 1/1000 dilution followed by **ab150080** (Alexa Fluor[®] 594 Goat anti-Rabbit secondary) at 1/1000 dilution.

Mouse TMC1 plasmid was kindly provided by our collaborator Dr. Yun Shi, Nanjing University MARC.



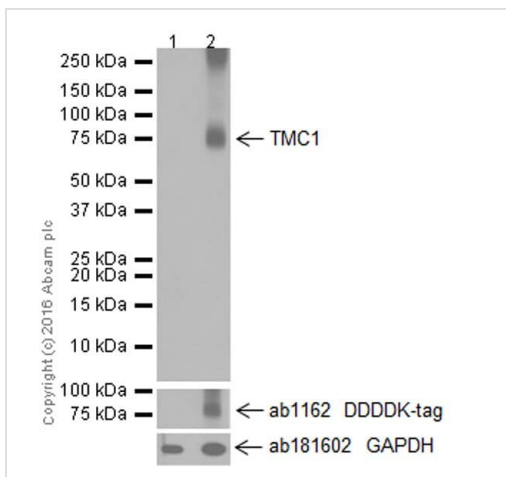
Immunohistochemistry (Frozen sections) - Anti-TMC1 antibody [EPR19527] (ab199949)

Immunohistochemical analysis of 4% paraformaldehyde-fixed frozen P20 mouse cochlea tissue labeling TMC1 with ab199949 at 1/50 dilution, followed by Goat Anti-Rabbit IgG (H+L) Dylight 488 secondary antibody at 1/500 dilution (green).

The results show specific staining on cochlear hair cells.

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

This is wholmount IF with no permeabilisation or antigen retrieval.



Western blot - Anti-TMC1 antibody [EPR19527] (ab199949)

All lanes : Anti-TMC1 antibody [EPR19527] (ab199949) at 1/2000 dilution

Lane 1 : HEK-293T (Human epithelial cell line from embryonic kidney) whole cell lysate transfected with empty DDDDK tag expression vector

Lane 2 : HEK-293T whole cell lysate transfected with DDDDK tagged mouse TMC1

Lysates/proteins at 2 µg per lane.

Secondary

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

Predicted band size: 88 kDa

Observed band size: 87 kDa

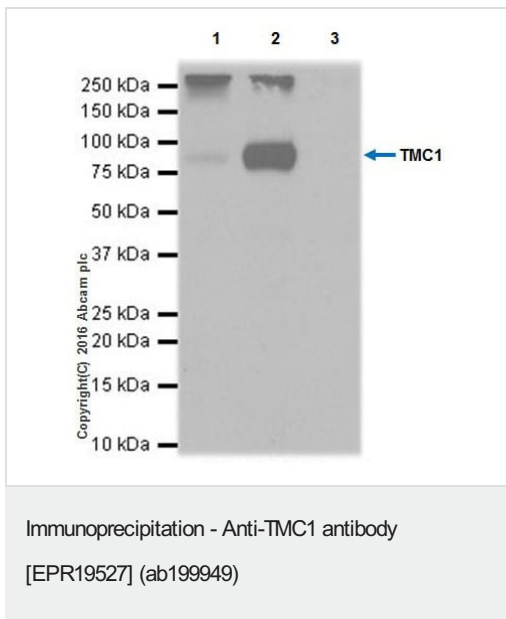
Exposure time: 1 second

Blocking/Dilution buffer: 5% NFDm/TBST.

Anti-DDDDK tag antibody used is **ab1162**.

Mouse TMC1 plasmid was kindly provided by our collaborator Dr. Yun Shi, Nanjing University MARC.

WB detection of endogenous TMC1 is not shown due to unavailability of appropriate testing material.



TMC1 was immunoprecipitated from 0.35 mg of HEK-293T (Human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate, transfected with pcDNA3.1-TMC1, with ab199949 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab199949 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10000 dilution.

Lane 1: HEK-293T whole cell lysate transfected with pcDNA3.1-TMC1, 10 µg (Input).

Lane 2: ab199949 IP in HEK-293T whole cell lysate transfected with pcDNA3.1-TMC1.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab199949 in HEK-293T whole cell lysate transfected with pcDNA3.1-TMC1.

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

Exposure time: 1 second.

Mouse TMC1 plasmid was kindly provided by our collaborator Dr. Yun Shi, Nanjing University MARC.

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-TMC1 antibody [EPR19527] (ab199949)

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