

Product datasheet

Anti-TSPEAR antibody [EPR15505] ab192023

Recombinant RabMAb

[1 References](#) [7 Images](#)

Overview

Product name	Anti-TSPEAR antibody [EPR15505]
Description	Rabbit monoclonal [EPR15505] to TSPEAR
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human TSPEAR aa 400-500. The exact sequence is proprietary. Database link: Q8WU66
Positive control	K562, C6, RAW264.7 and 293 cell lysate. Human testis lysate. Human kidney and stomach tissue. A549 cells.

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](#).

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise[™] guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been "predicted to work

with," however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

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: 40% Glycerol (glycerin, glycerine), 0.05% BSA, 59% PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR15505
Isotype	IgG

Applications

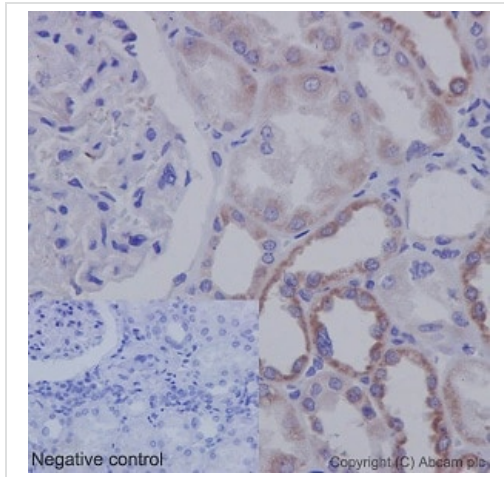
Our [Abpromise guarantee](#) covers the use of **ab192023** in the following tested applications.

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

Application	Abreviews	Notes
WB		1/1000 - 1/2000. Detects a band of approximately 80 kDa (predicted molecular weight: 75 kDa).
IHC-P		1/100 - 1/200. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/100.

Target

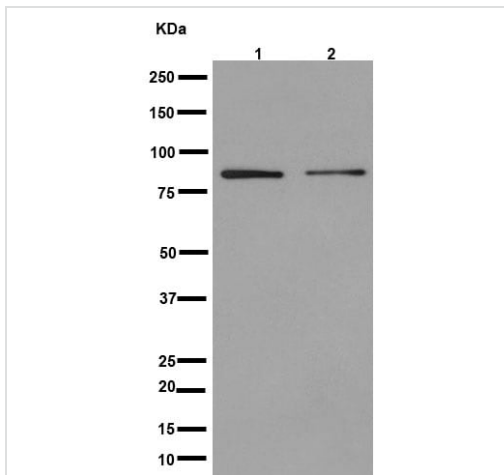
Function	May play a role in development or function of the auditory system.
Involvement in disease	Deafness, autosomal recessive, 98
Sequence similarities	Contains 7 EAR repeats. Contains 1 laminin G-like domain.
Cellular localization	Secreted. Cell surface. Cell projection > stereocilium. Secreted protein which may bind to the cell surface via a membrane receptor.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TSPEAR antibody [EPR15505] (ab192023)

Immunohistochemical analysis of paraffin embedded human kidney tissue sections labeling TSPEAR using ab192023 at a 1/200 dilution. A ready to use HRP Polymer for Rabbit IgG was used as the secondary. Hematoxylin counterstain. Negative control uses PBS instead of primary antibody.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Western blot - Anti-TSPEAR antibody [EPR15505] (ab192023)

All lanes : Anti-TSPEAR antibody [EPR15505] (ab192023) at 1/1000 dilution

Lane 1 : K562 cell lysate

Lane 2 : 293 cell lysate

Lysates/proteins at 20 µg per lane.

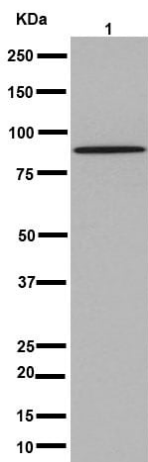
Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/100 dilution

Predicted band size: 75 kDa

Observed band size: 80 kDa

[why is the actual band size different from the predicted?](#)



Western blot - Anti-TSPEAR antibody [EPR15505] (ab192023)

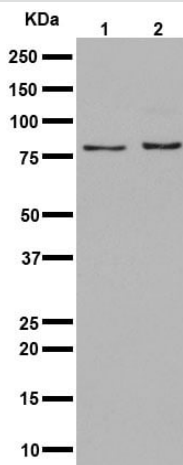
Anti-TSPEAR antibody [EPR15505] (ab192023) at 1/5000 dilution
+ human testis lysate at 1/10 dilution

Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 75 kDa

Observed band size: 80 kDa [why is the actual band size different from the predicted?](#)



Western blot - Anti-TSPEAR antibody [EPR15505] (ab192023)

All lanes : Anti-TSPEAR antibody [EPR15505] (ab192023) at 1/1000 dilution

Lane 1 : C6 cell lysate

Lane 2 : RAW264.7 cell lysate

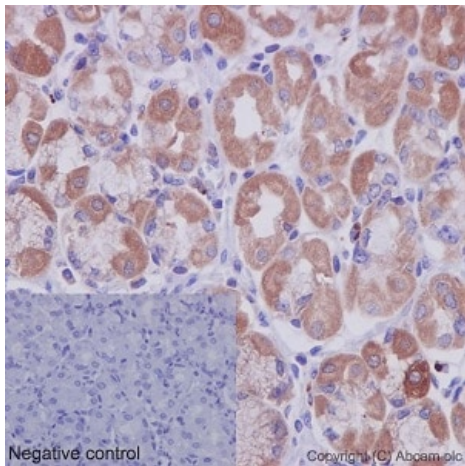
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 75 kDa

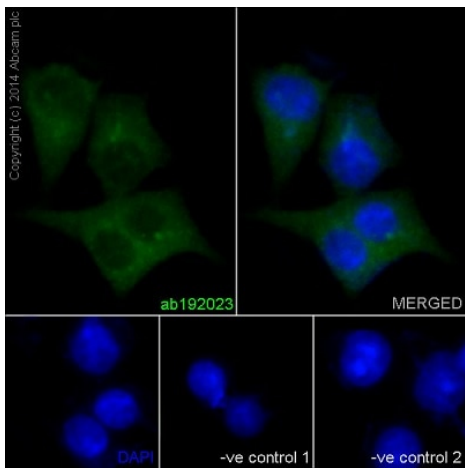
Observed band size: 80 kDa [why is the actual band size different from the predicted?](#)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TSPEAR antibody [EPR15505] (ab192023)

Immunohistochemical analysis of paraffin embedded human stomach tissue sections labeling TSPEAR using ab192023 at a 1/200 dilution. A ready to use HRP Polymer for Rabbit IgG was used as the secondary. Hematoxylin counterstain. Negative control uses PBS instead of primary antibody.





Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-TSPEAR antibody [EPR15505] (ab192023)

Immunofluorescent analysis of 4% paraformaldehyde fixed A549 cells labeling TSPEAR using ab192023 at a 1/100 dilution. A Goat anti rabbit IgG (Alexa Fluor®488) (ab150077) was used as the secondary at a 1/200 dilution. Counterstain: ab7291 and ab150120 both at 1/500 dilution. The negative controls: Primary ab concentration (anti-TSPEAR) is 1/100 dilution, Secondary ab (Goat anti mouse IgG (Alexa Fluor®594)) is 1/500 dilution. Cells were permeabilized using 0.1% Triton X-100.

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-TSPEAR antibody [EPR15505] (ab192023)

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

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