

Product datasheet

Anti-TRP1 antibody [EPR13063] ab178676

Recombinant RabMAb

[12 References](#) [10 Images](#)

Overview

Product name	Anti-TRP1 antibody [EPR13063]
Description	Rabbit monoclonal [EPR13063] to TRP1
Host species	Rabbit
Specificity	The mouse recommendation is based on the WB results. We do not guarantee IHC-P for mouse.
Tested applications	Suitable for: Flow Cyt (Intra), IHC-P, WB, ICC/IF
Species reactivity	Reacts with: Mouse, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Human melanoma lysate; B16-F0 cell lysate; Human skin tissue; B16-F0 cells. WB: MeWo, B16-F0 and SK-MEL-28 cell lysates
General notes	<p>This antibody is unsuitable for IHC-P on mouse samples.</p> <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> <p>Rat: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.</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	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified

Clonality	Monoclonal
Clone number	EPR13063
Isotype	IgG

Applications

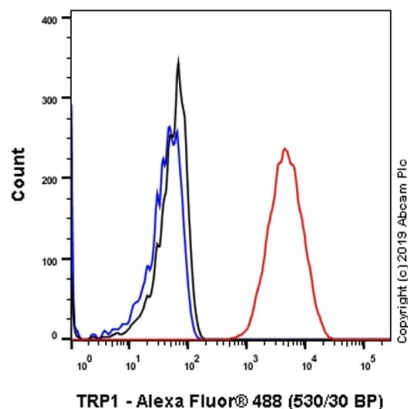
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab178676 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/40.
IHC-P		1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. See IHC antigen retrieval protocols . For the unpurified format use at 1/100 - 1/250 dilution. The mouse recommendation is based on the WB results. We do not guarantee IHC-P for mouse.
WB		1/10000 - 1/50000. Predicted molecular weight: 61 kDa.
ICC/IF		1/100 - 1/250.

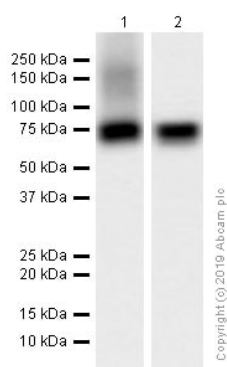
Target

Function	Oxidation of 5,6-dihydroxyindole-2-carboxylic acid (DHICA) into indole-5,6-quinone-2-carboxylic acid. May regulate or influence the type of melanin synthesized.
Tissue specificity	Pigment cells.
Pathway	Pigment biosynthesis; melanin biosynthesis.
Involvement in disease	Defects in TYRP1 are the cause of albinism oculocutaneous type 3 (OCA3) [MIM:203290]; also known as Rufous oculocutaneous albinism. An autosomal recessive disorder in which the biosynthesis of melanin pigment is reduced in skin, hair, and eyes. Tyrosinase activity is normal and patients have only moderate reduction of pigment. The eyes present red reflex on transillumination of the iris, dilution of color of iris, nystagmus and strabismus. Darker-skinned individuals have bright copper-red coloration of the skin and hair.
Sequence similarities	Belongs to the tyrosinase family.
Cellular localization	Melanosome membrane.

Images



Flow Cytometry (Intracellular) - Anti-TRP1 antibody [EPR13063] (ab178676)



Western blot - Anti-TRP1 antibody [EPR13063] (ab178676)

Intracellular Flow Cytometry analysis of B16-F0 (Mouse melanoma epithelial cell-like) cells labeling TRP1 with purified ab178676 at 1/40 dilution (10 µg/ml) (red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).

All lanes : Anti-TRP1 antibody [EPR13063] (ab178676) at 1/50000 dilution (Purified)

Lane 1 : MeWo (Human malignant melanoma fibroblast) whole cell lysates

Lane 2 : B16-F0 (Mouse melanoma epithelial cell-like) whole cell lysates

Lysates/proteins at 20 µg per lane.

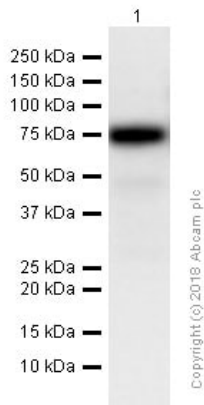
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 61 kDa

Observed band size: 75 kDa

The observed molecular weight is consistent with what have been described in literatures PMID: 24586946 and 27690000.



Western blot - Anti-TRP1 antibody [EPR13063] (ab178676)

Anti-TRP1 antibody [EPR13063] (ab178676) at 1/10000 dilution (Purified) + SK-MEL-28 (Human malignant melanoma) whole cell lysates at 20 µg

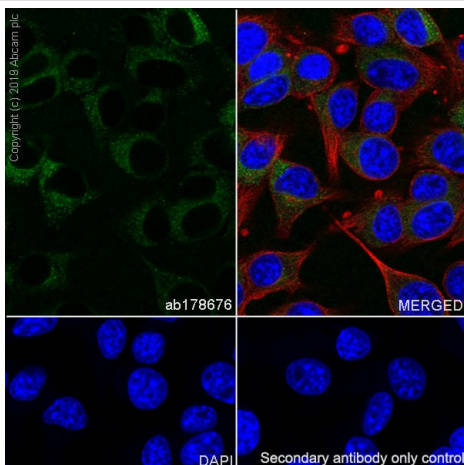
Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 61 kDa

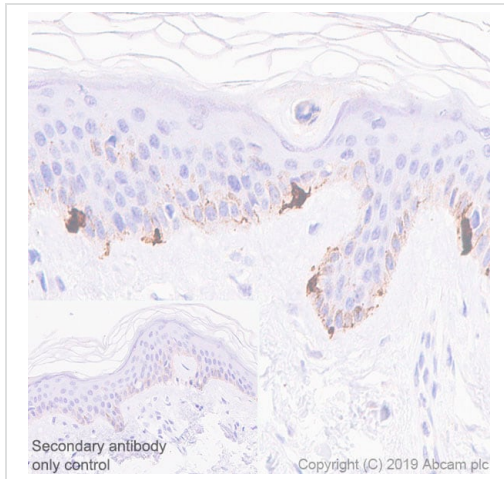
Observed band size: 75 kDa

The observed molecular weight is consistent with what have been described in literatures PMID: 24586946 and 27690000.



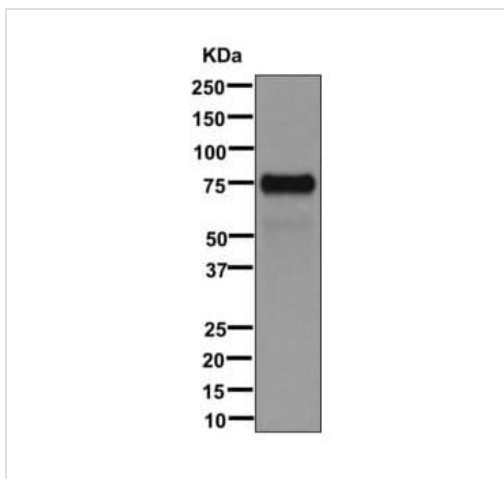
Immunocytochemistry/ Immunofluorescence - Anti-TRP1 antibody [EPR13063] (ab178676)

Immunocytochemistry/ Immunofluorescence analysis of B16-F10 (Mouse melanoma epithelial cell-like) cells labeling TRP1 with purified ab178676 at 1:100 dilution (3.6 µg/ml). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with [ab195889](#) Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) at 1:200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) was used as the secondary antibody at 1:1000 (2 µg/ml) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TRP1 antibody
[EPR13063] (ab178676)

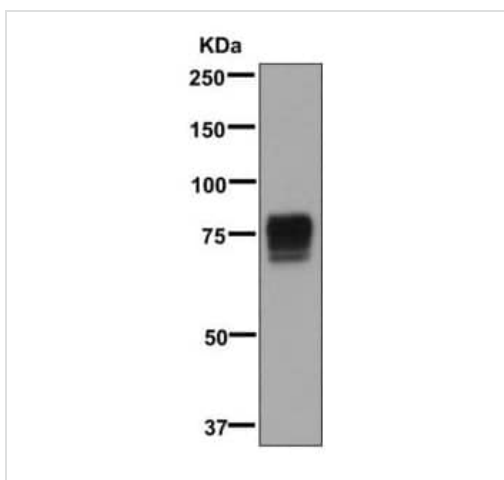
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human skin tissue sections labeling TRP1 with purified ab178676 at 1:1000 dilution (0.36 µg/ml). Heat mediated antigen retrieval was performed using [ab93684](#) (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use) was used as the secondary antibody. Negative control: PBS instead of the primary antibody. Hematoxylin was used as a counterstain.



Western blot - Anti-TRP1 antibody [EPR13063]
(ab178676)

Anti-TRP1 antibody [EPR13063] (ab178676) at 1/10000 dilution (unpurified) + Human melanoma lysate at 10 µg

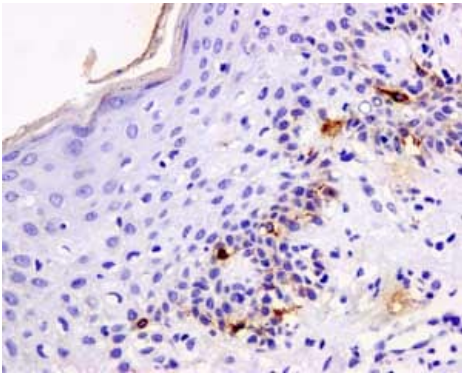
Predicted band size: 61 kDa



Western blot - Anti-TRP1 antibody [EPR13063]
(ab178676)

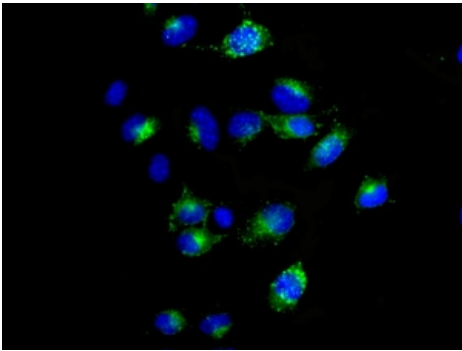
Anti-TRP1 antibody [EPR13063] (ab178676) at 1/10000 dilution (unpurified) + B16-F0 cell lysate at 10 µg

Predicted band size: 61 kDa



Immunohistochemical analysis of paraffin-embedded Human skin tissue labeling TRP1 with ab178676 (unpurified) at 1/100 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TRP1 antibody [EPR13063] (ab178676)



Immunofluorescent analysis of B16-F0 cells labeling TRP1 with ab178676 (unpurified) at 1/100 dilution.

Immunocytochemistry/ Immunofluorescence - Anti-TRP1 antibody [EPR13063] (ab178676)

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-TRP1 antibody [EPR13063] (ab178676)

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

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