

Anti-TRP1 antibody [EPR21960] ab235447

リコンビナント **RabMAb**

★★★★★ **2 Abreviews** **12 References** 画像数 10

製品の概要

製品名	Anti-TRP1 antibody [EPR21960]
製品の詳細	Rabbit monoclonal [EPR21960] to TRP1
由来種	Rabbit
特異性	We recommend WB for human and mouse; we predict it will also work in WB with rat lysates but were unable to test this.
アプリケーション	適用あり: WB, IHC-P, ICC/IF, Flow Cyt (Intra)
種交差性	交差種: Mouse, Rat, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	IHC-P: Human skin and melanoma tissues; Mouse and rat skin tissues. WB: MeWo and B16-F0 whole cell lysates. ICC/IF: MeWo and B16-F0 cells. Flow Cyt (intra): MeWo and B16-F0 cells.
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	<p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p>
精製度	Protein A purified
ポリ/モノ	モノクローナル

クローン名	EPR21960
アイソタイプ	IgG

アプリケーション

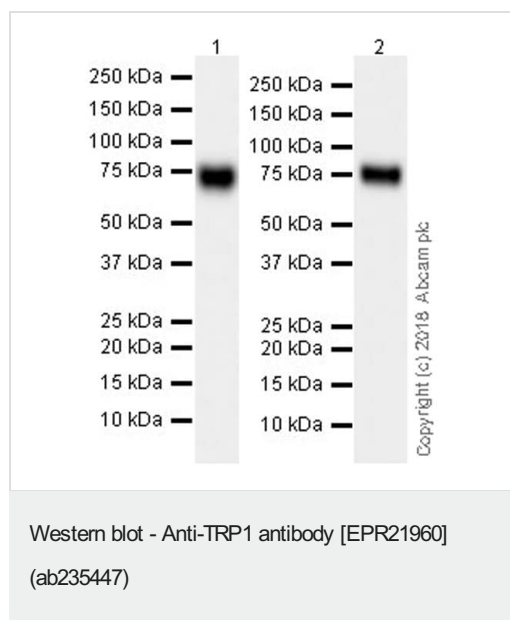
The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab235447の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		1/1000. Detects a band of approximately 75 kDa (predicted molecular weight: 61 kDa). We recommend WB for human and mouse; we predict it will also work in WB with rat lysates but were unable to test this.
IHC-P	★★★★★ (1)	1/4000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF	★★★★★ (1)	1/1000.
Flow Cyt (Intra)		1/60.

ターゲット情報

機能	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.
組織特異性	Pigment cells.
パスウェイ	Pigment biosynthesis; melanin biosynthesis.
関連疾患	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.
配列類似性	Belongs to the tyrosinase family.
細胞内局在	Melanosome membrane.

画像



All lanes : Anti-TRP1 antibody [EPR21960] (ab235447) at 1/1000 dilution

Lane 1 : MeWo (human malignant melanoma fibroblast cell line) whole cell lysate

Lane 2 : B16-F0 (mouse melanoma epithelial cell-like cell line) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

Lane 1 : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Lane 2 : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 61 kDa

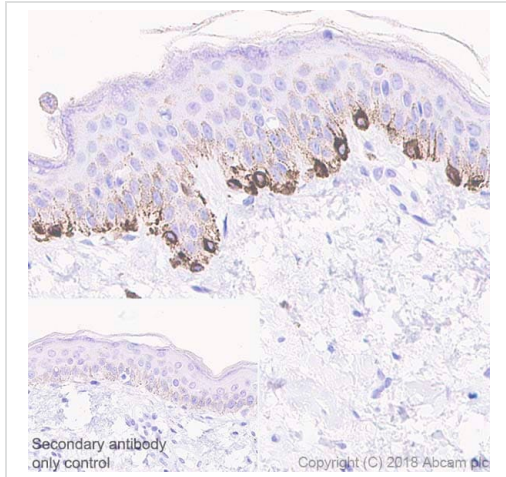
Observed band size: 75 kDa

Exposure time: Lane 1: 10 seconds; Lane 2: 3 seconds.

Blocking/Dilution buffer: 5% NFDM/TBST.

The observed mass is greater than the predicted due to glycosylation.

The molecular mass observed is consistent with what has been described in the literature (PMID: 21324755; PMID: 18042623;18650849).

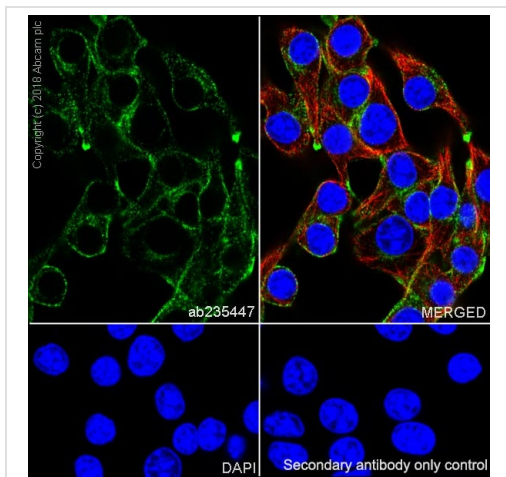


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TRP1 antibody [EPR21960] (ab235447)

Immunohistochemical analysis of paraffin-embedded human skin tissue labeling TRP1 with ab235447 at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Positive staining of melanocytes in human skin (PMID:21562572). Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

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

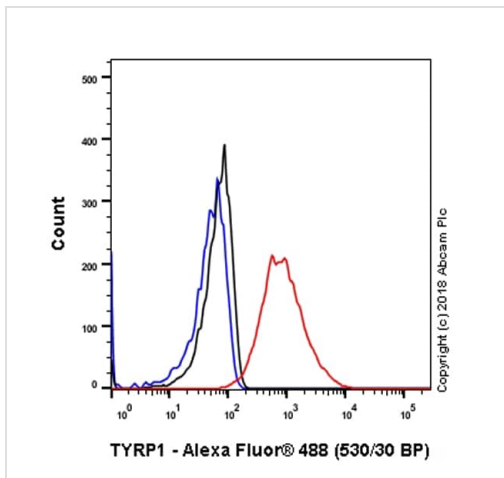


Immunocytochemistry/ Immunofluorescence - Anti-TRP1 antibody [EPR21960] (ab235447)

Immunofluorescent analysis of 100% methanol fixed B16-F0 (mouse melanoma epithelial cell-like cell line) cells labeling TRP1 with ab235447 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic and membranous staining in the B16-F0 cell line.

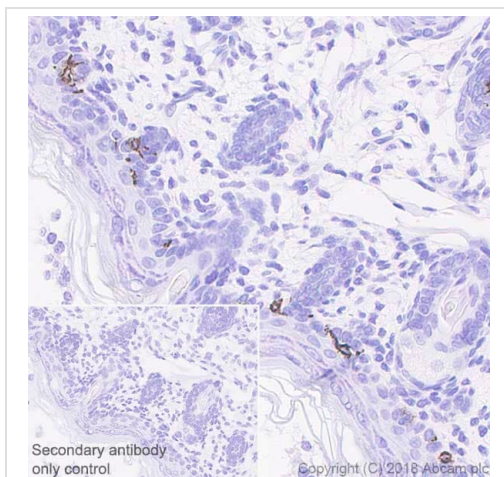
The nuclear counter stain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (**ab195889**) (red) at 1/200 dilution.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-TRP1 antibody
[EPR21960] (ab235447)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol permeabilized B16-F0 (mouse melanoma epithelial cell-like cell line) cells labeling TRP1 with ab235447 at 1/60 (red) compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**) (black) and an unlabeled control (cells incubated with secondary antibody only) (blue). Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) at 1/2000 dilution was used as the secondary antibody.

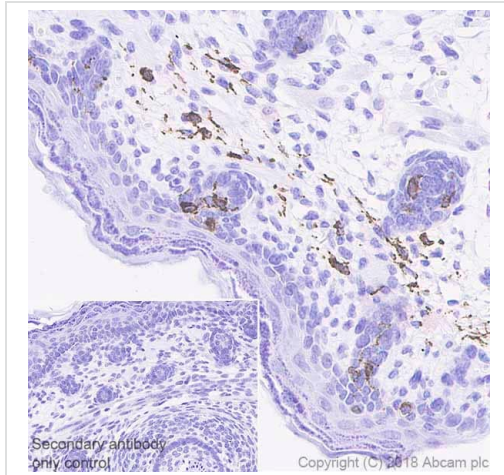


Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-TRP1 antibody
[EPR21960] (ab235447)

Immunohistochemical analysis of paraffin-embedded rat skin tissue labeling TRP1 with ab235447 at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Positive staining of melanocytes in rat skin (PMID: 21562572). Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

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

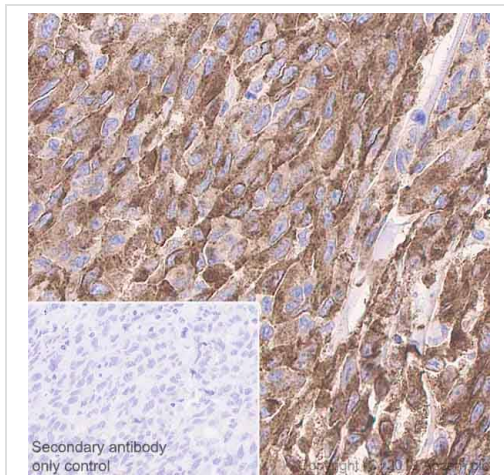


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TRP1 antibody
[EPR21960] (ab235447)

Immunohistochemical analysis of paraffin-embedded mouse skin tissue labeling TRP1 with ab235447 at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Positive staining of melanocytes in mouse skin (PMID: 21562572). Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

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

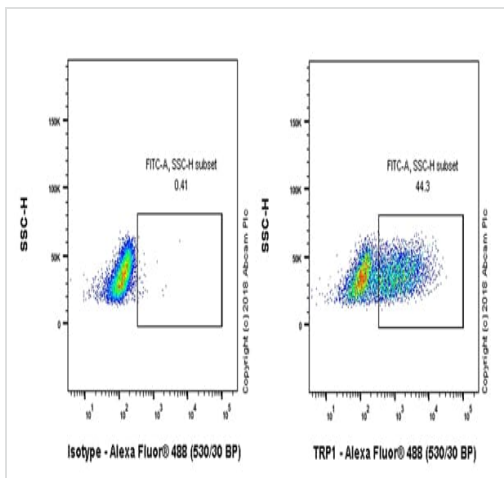


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TRP1 antibody
[EPR21960] (ab235447)

Immunohistochemical analysis of paraffin-embedded human melanoma tissue labeling TRP1 with ab235447 at 1/4000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Cytoplasmic staining in tumor cells of human melanoma (PMID: 22045183; 26068396). Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

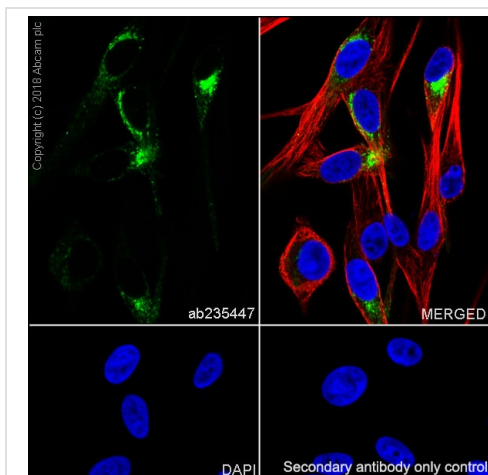
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Flow Cytometry (Intracellular) - Anti-TRP1 antibody
[EPR21960] (ab235447)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol permeabilized MeWo (human malignant melanoma fibroblast cell line) cells labeling TRP1 with ab235447 at 1/60 (right panel) compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**) (left panel). Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) at 1/2000 dilution was used as the secondary antibody.

TRP1 is predominantly expressed in mature melanosomes (PMID: 27073483, 11266471).



Immunocytochemistry/ Immunofluorescence - Anti-TRP1 antibody [EPR21960] (ab235447)

Immunofluorescent analysis of 100% methanol fixed MeWo (human malignant melanoma fibroblast cell line) cells labeling TRP1 with ab235447 at 1/1000 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 in MeWo cell line.

The nuclear counter stain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (**ab195889**) (red) at 1/200 dilution.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution.

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 [EPR21960] (ab235447)

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