

Anti-TRP2/DCT antibody [EPR21986] - BSA and Azide free ab234901

Recombinant RabMAb

6 Images

Overview

Product name	Anti-TRP2/DCT antibody [EPR21986] - BSA and Azide free
Description	Rabbit monoclonal [EPR21986] to TRP2/DCT - BSA and Azide free
Host species	Rabbit
Specificity	Mouse species is recommended based on WB and IP results, we do not guarantee IHC-P for mouse.
Tested applications	Suitable for: mIHC, WB, IHC-P, IP
Species reactivity	Reacts with: Mouse, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	IHC-P: Human melanoma tissue. mIHC: Human skin (melanocytes).
General notes	<p>ab234901 is the carrier-free version of ab221144.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</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</p>

monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR21986
Isotype	IgG

Applications

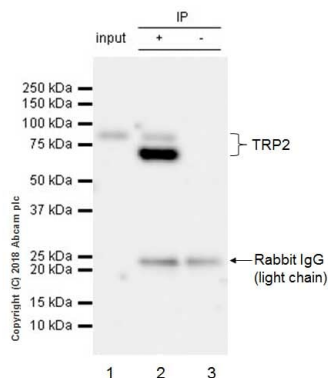
The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab234901 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
mlHC		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Detects a band of approximately 69, 85 kDa (predicted molecular weight: 59 kDa).
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. Mouse species is recommended based on WB and IP results, we do not guarantee IHC-P for mouse.
IP		Use at an assay dependent concentration.

Target

Function	Involved in regulating eumelanin and phaeomelanin levels.
Pathway	Pigment biosynthesis; melanin biosynthesis.
Sequence similarities	Belongs to the tyrosinase family.
Cellular localization	Melanosome membrane.

Images



Immunoprecipitation - Anti-TRP2/DCT antibody
[EPR21986] - BSA and Azide free (ab234901)

TRP2/DCT was immunoprecipitated from 0.35 mg B16-F0 (mouse melanoma epithelial cell-like cell line) whole cell lysate with **ab221144** at 1/30 dilution. Western blot was performed from the immunoprecipitate using **ab221144** at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/5000 dilution.

Lane 1: B16-F0 whole cell lysate 10 µg (Input).

Lane 2: **ab221144** IP in B16-F0 whole cell lysate.

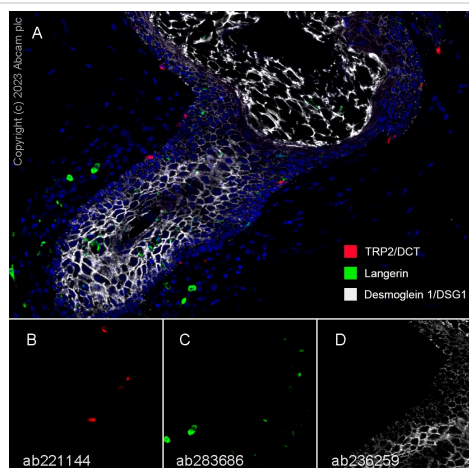
Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab221144** in B16-F0 whole cell lysate.

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

Exposure time: 41 seconds.

~85KD band is the glycosylated form (PMID: 12719423)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab221144**).



Multiplex immunohistochemistry - Anti-TRP2/DCT antibody [EPR21986] - BSA and Azide free (ab234901)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab221144**).

Panel A: merged staining of anti-Desmoglein 1/DSG1 (gray; Opal™690), anti-Langerin (green; Opal™520) and anti-TRP2/DCT (red; Opal™570) on human skin.

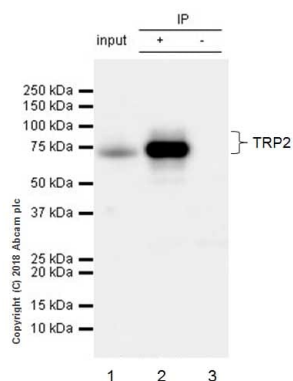
Panel B: anti-TRP2/DCT stained on melanocytes.

Panel C: anti-Langerin stained on Langerhans cells.

Panel D: anti-Desmoglein 1/DSG1 stained on epidermis.

The section was incubated in three rounds of staining: in the order of **ab236259**, **ab283686**, and **ab221144** for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. Image acquisition was performed with Leica SP8 confocal microscope.



Immunoprecipitation - Anti-TRP2/DCT antibody [EPR21986] - BSA and Azide free (ab234901)

TRP2/DCT was immunoprecipitated from 0.35 mg SK-MEL-2 (human skin malignant melanoma cell line) whole cell lysate with **ab221144** at 1/30 dilution. Western blot was performed from the immunoprecipitate using **ab221144** at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/5000 dilution.

Lane 1: SK-MEL-2 whole cell lysate 10 µg (Input).

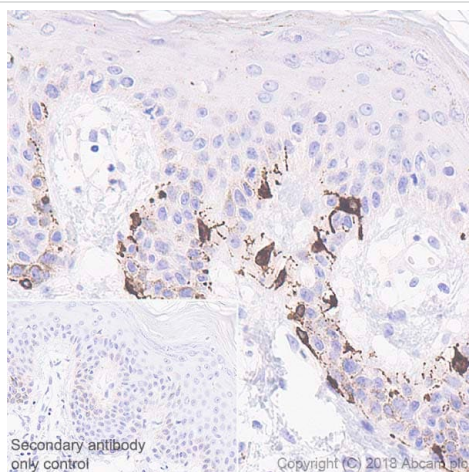
Lane 2: **ab221144** IP in SK-MEL-2 whole cell lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab221144** in SK-MEL-2 whole cell lysate.

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

Exposure time: 5 seconds.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab221144**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TRP2/DCT antibody [EPR21986] - BSA and Azide free (ab234901)

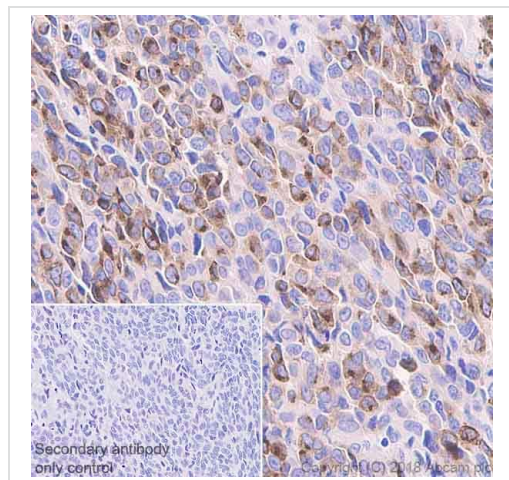
Immunohistochemical analysis of paraffin-embedded human skin tissue labeling TRP2/DCT with **ab221144** at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

Cytoplasmic staining in melanocytes of human skin (PMID:12535195). 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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab221144**).

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-TRP2/DCT antibody [EPR21986] - BSA and Azide free (ab234901)

Immunohistochemical analysis of paraffin-embedded human melanoma tissue labeling TRP2/DCT with **ab221144** at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Cytoplasmic staining in human melanoma (PMID: 24475287). 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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab221144**).

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

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>

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

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