

Product datasheet

Anti-TRP1 antibody [TA99] ab3312

★★★★★ 5 Abreviews 13 References 3 Images

Overview

Product name	Anti-TRP1 antibody [TA99]
Description	Mouse monoclonal [TA99] to TRP1
Host species	Mouse
Specificity	ab3312 is specific for melanomas and does not react with carcinomas and sarcomas.
Tested applications	Suitable for: IHC-Fr, WB, ICC/IF
Species reactivity	Reacts with: Mouse, Human
Immunogen	SK-MEL-23 Melanoma cell line.
Positive control	In Western Blot, this antibody gave a positive signal in human skin tissue lysate.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.1% Sodium azide Constituent: PBS
Purity	Protein G purified
Clonality	Monoclonal
Clone number	TA99
Isotype	IgG2a

Applications

Our [Abpromise guarantee](#) covers the use of **ab3312** in the following tested applications.

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

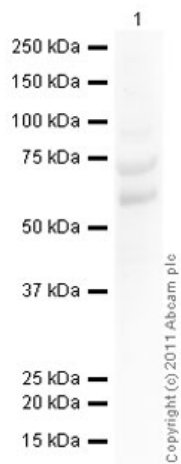
Application	Abreviews	Notes
IHC-Fr	★★★★★	Use at an assay dependent concentration.

Application	Abreviews	Notes
WB		Use a concentration of 5 µg/ml. Detects a band of approximately 72 kDa (predicted molecular weight: 72 kDa).
ICC/IF	★★★★☆	Use at an assay dependent concentration. PubMed: 19841138

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



Western blot - Anti-TRP1 antibody [TA99] (ab3312)

Anti-TRP1 antibody [TA99] (ab3312) at 5 $\mu\text{g/ml}$ + Human skin tissue lysate - total protein (ab30166) at 20 μg

Secondary

Goat polyclonal Secondary Antibody to Mouse IgG - H&L (HRP), pre-adsorbed at 1/5000 dilution

Developed using the ECL technique.

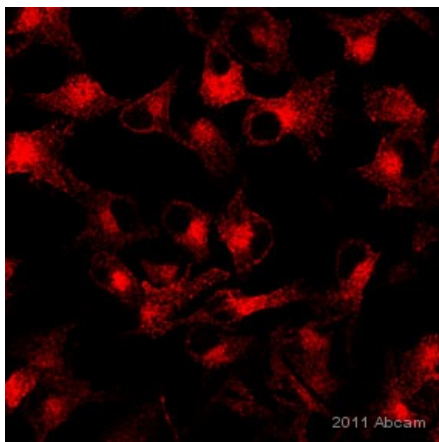
Performed under reducing conditions.

Predicted band size: 72 kDa

Observed band size: 72 kDa

Additional bands at: 61 kDa. We are unsure as to the identity of these extra bands.

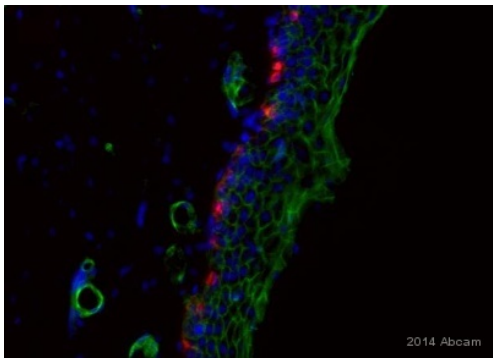
Exposure time: 20 minutes



Immunocytochemistry/ Immunofluorescence - Anti-TRP1 antibody [TA99] (ab3312)

This image is courtesy of an Abreview submitted by James Harris.

ab3312 staining TRP1 in B16 mouse melanoma cells by Immunocytochemistry/ Immunofluorescence. Cells were fixed in 2% paraformaldehyde for 30 minutes and permeabilized in 0.1% Triton X-100 prior to blocking in 5% goat serum for 1 hour at 22°C. The primary antibody was diluted 1/200 in 5% goat serum/1% BSA in PBS and incubated with the sample for 1 hour at 22°C. The secondary antibody was Alexa Fluor® 568-conjugated Goat anti-Mouse polyclonal, diluted 1/500.



Paraformaldehyde-fixed, 0.1% tritonx-100 - permeabilized human skin tissue stained for TRP1 (Red) using ab3312 at 1/300 dilution in immunohistochemical analysis. Phalloidin (Green) DAPI (Blue).

Immunohistochemistry (Frozen sections) - Anti-TRP1 antibody [TA99] (ab3312)
Image was courtesy of an anonymous abreview.

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