

## Product datasheet

# Anti-TRP1 antibody [TA99] ab3312

★★★★☆ 4 Abreviews 12 References 3 Images

### Overview

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

### Properties

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

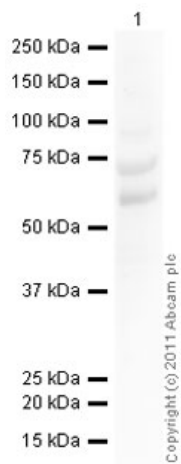
Application	Abreviews	Notes
IHC-Fr	★★★★★	Use at an assay dependent concentration.

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

<b>Function</b>	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.
<b>Tissue specificity</b>	Pigment cells.
<b>Pathway</b>	Pigment biosynthesis; melanin biosynthesis.
<b>Involvement in disease</b>	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.
<b>Sequence similarities</b>	Belongs to the tyrosinase family.
<b>Cellular localization</b>	Melanosome membrane.

## Images



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

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

### Secondary

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

Developed using the ECL technique.

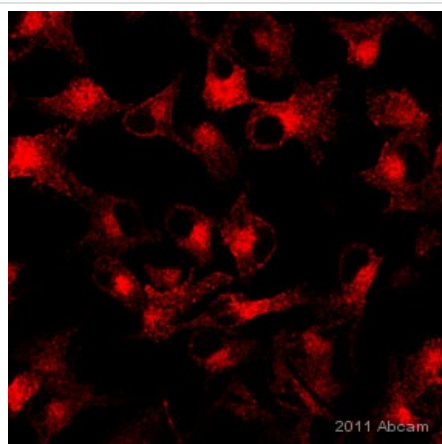
Performed under reducing conditions.

**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.

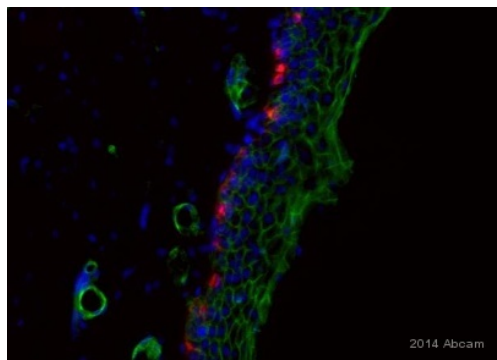
**Exposure time:** 20 minutes



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.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

### Our Abpromise to you: Quality guaranteed and expert technical support

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <http://www.abcam.com/abpromise> or contact our technical team.

### Terms and conditions

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors