

Product datasheet

Anti-TRP1 antibody [TA99] ab3312

★★★★★ [10 Abreviews](#) [31 References](#) [1 Image](#)

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: WB
Species reactivity	Reacts with: Human
Immunogen	SK-MEL-23 Melanoma cell line.
Positive control	In Western Blot, this antibody gave a positive signal in human skin tissue lysate.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

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

Applications

The Abpromise guarantee

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
WB	★★★★★ (1)	Use a concentration of 5 µg/ml. Detects a band of approximately 72 kDa (predicted molecular weight: 72 kDa).

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 µg/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

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

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