

**Anti-TRP1 Monoclonal Antibody**  
Catalog # ABO14639**Specification****Anti-TRP1 Monoclonal Antibody - Product Information**

Application	WB, IHC, IP
Primary Accession	<a href="#">P17643</a>
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Human
Clonality	Monoclonal
Format	Liquid

**Description**

Anti-TRP1 Monoclonal Antibody . Tested in WB, IHC, IP applications. This antibody reacts with Human.

**Anti-TRP1 Monoclonal Antibody - Additional Information**

**Gene ID** 7306

**Other Names**

5, 6-dihydroxyindole-2-carboxylic acid oxidase, DHICA oxidase, 1.14.18.-, Catalase B, Glycoprotein 75, Melanoma antigen gp75, Tyrosinase-related protein 1, TRP, TRP-1, TRP1, TYRP1 ([http://www.genenames.org/cgi-bin/gene\\_symbol\\_report?hgnc\\_id=12450](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=12450))  
HGNC:12450

**Application Details**

WB 1:500-1:2000<br>IHC 1:50-1:200<br>IP 1:50

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human TRP1 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.

**Purification**

Affinity-chromatography

Storage

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

**Anti-TRP1 Monoclonal Antibody - Protein Information**

**Name** TYRP1 ([HGNC:12450](#))

### Function

Plays a role in melanin biosynthesis (PubMed:<a href="http://www.uniprot.org/citations/16704458" target="\_blank">16704458</a>, PubMed:<a href="http://www.uniprot.org/citations/22556244" target="\_blank">22556244</a>, PubMed:<a href="http://www.uniprot.org/citations/23504663" target="\_blank">23504663</a>). Catalyzes the oxidation of 5,6- dihydroxyindole-2-carboxylic acid (DHICA) into indole-5,6-quinone-2-carboxylic acid in the presence of bound Cu(2+) ions, but not in the presence of Zn(2+) (PubMed:<a href="http://www.uniprot.org/citations/28661582" target="\_blank">28661582</a>). May regulate or influence the type of melanin synthesized (PubMed:<a href="http://www.uniprot.org/citations/16704458" target="\_blank">16704458</a>, PubMed:<a href="http://www.uniprot.org/citations/22556244" target="\_blank">22556244</a>). Also to a lower extent, capable of hydroxylating tyrosine and producing melanin (By similarity).

### Cellular Location

Melanosome membrane {ECO:0000250|UniProtKB:P07147}; Single-pass type I membrane protein {ECO:0000250|UniProtKB:P07147}. Note=Located to mature stage III and IV melanosomes and apposed endosomal tubular membranes. Transported to pigmented melanosomes by the BLOC-1 complex. Proper trafficking to melanosome is regulated by SGSM2, ANKRD27, RAB9A, RAB32 and RAB38 {ECO:0000250|UniProtKB:P07147}

### Tissue Location

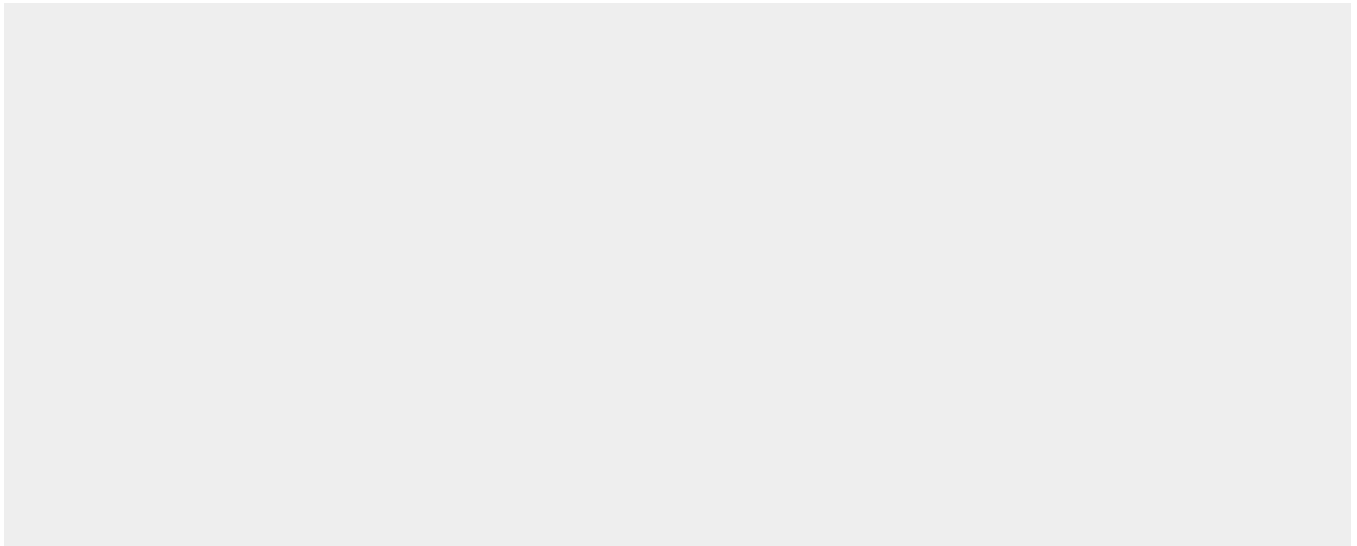
Pigment cells.

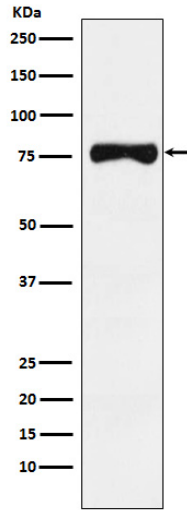
## Anti-TRP1 Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-TRP1 Monoclonal Antibody - Images





Western blot analysis of TRP1 expression in Human melanoma lysate.