

**Anti-Tyrosinase-Related Protein-1 (TYRP-1) Antibody**  
**Recombinant Rabbit Monoclonal Antibody**  
**Catalog # AH13564****Specification****Anti-Tyrosinase-Related Protein-1 (TYRP-1) Antibody - Product Information**

Application	IHC-P, IF, FC
Primary Accession	<a href="#">P17643</a>
Other Accession	<a href="#">270279</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Monoclonal
Isotype	Rabbit / IgG, kappa
Calculated MW	60724

**Anti-Tyrosinase-Related Protein-1 (TYRP-1) Antibody - Additional Information****Gene ID** 7306**Other Names**

5, 6 dihydroxyindole 2 carboxylic acid oxidase, 6-dihydroxyindole-2-carboxylic acid oxidase, Associated with iris pigmentation, CAS2, Catalase B (CATB), DHICA oxidase, Glycoprotein75 (GP75), Melanoma antigen gp75, Tyrosinase-related protein 1 (TYRP1), TYRRP

**Application Note**

IHC-P~~N/A  
IF~~1:50~200  
FC~~1:10~50

**Format**

200ug/ml of Ab purified by Protein A. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

**Storage**

Store at 2 to 8°C. Antibody is stable for 24 months.

**Precautions**

Anti-Tyrosinase-Related Protein-1 (TYRP-1) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Anti-Tyrosinase-Related Protein-1 (TYRP-1) Antibody - Protein Information****Name** TYRP1 ([HGNC:12450](#))**Function**

Plays a role in melanin biosynthesis (PubMed: [16704458](http://www.uniprot.org/citations/16704458), PubMed: [22556244](http://www.uniprot.org/citations/22556244), PubMed: [23504663](http://www.uniprot.org/citations/23504663)). 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

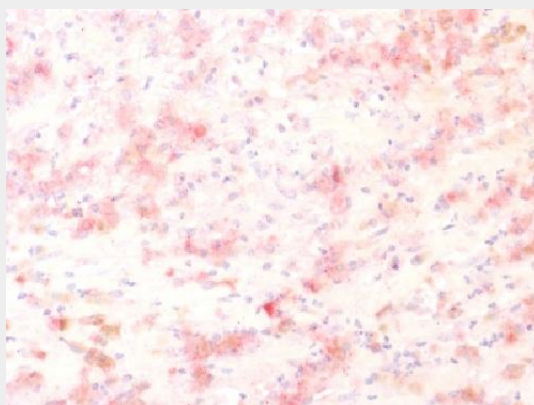
Pigment cells.

### Anti-Tyrosinase-Related Protein-1 (TYRP-1) 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-Tyrosinase-Related Protein-1 (TYRP-1) Antibody - Images



Formalin-fixed, paraffin-embedded human Melanoma stained with TYRP1 Recombinant Rabbit Monoclonal Antibody (TYRP1/1564R) using AEC Chromogen (red).

### Anti-Tyrosinase-Related Protein-1 (TYRP-1) Antibody - Background

It reacts with a 75kDa melanocyte-specific gene product, identified as Tyrosinase-related protein-1 (TRP-1). It is involved in melanin synthesis. TRP1 is present on the melanosomal membranes of melanoma, normal melanocytes and nevi. Recent evidence suggests that TRP-1 is involved in maintaining stability of tyrosinase protein and modulating its catalytic activity. TRP-1 is also

involved in maintenance of melanosome ultrastructure and affects melanocyte proliferation and cell death.