

Tyrosinase-Related Protein-1 (TYRP-1) (Melanoma Marker) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone SPM611]
Catalog # AH12485

Specification

Tyrosinase-Related Protein-1 (TYRP-1) (Melanoma Marker) Antibody - With BSA and Azide - Product Information

Application	,2,3,4,
Primary Accession	P17643
Other Accession	7306 , 270279
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG2a, kappa
Calculated MW	75kDa kDa

Tyrosinase-Related Protein-1 (TYRP-1) (Melanoma Marker) Antibody - With BSA and Azide - 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, CAS2, TYRP, TYRRP

Storage

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

Precautions

Tyrosinase-Related Protein-1 (TYRP-1) (Melanoma Marker) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

Tyrosinase-Related Protein-1 (TYRP-1) (Melanoma Marker) Antibody - With BSA and Azide - 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: [28661582](http://www.uniprot.org/citations/28661582)). May regulate or influence the type of melanin synthesized (PubMed:)

href="http://www.uniprot.org/citations/16704458" target="_blank">16704458, PubMed:22556244). 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

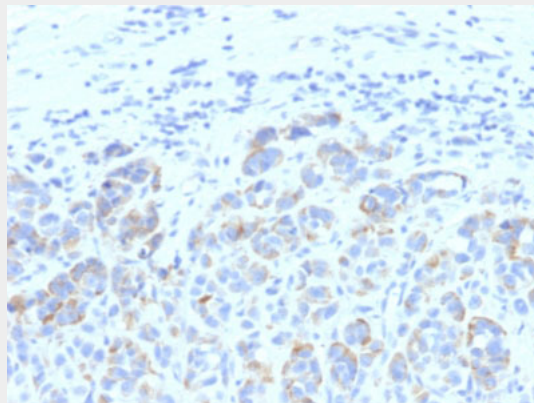
Pigment cells.

Tyrosinase-Related Protein-1 (TYRP-1) (Melanoma Marker) Antibody - With BSA and Azide - 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](#)

Tyrosinase-Related Protein-1 (TYRP-1) (Melanoma Marker) Antibody - With BSA and Azide - Images



Formalin-fixed, paraffin-embedded human Melanoma stained with TYRP1 Monoclonal Antibody (SPM611)

Tyrosinase-Related Protein-1 (TYRP-1) (Melanoma Marker) Antibody - With BSA and Azide - 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.

Tyrosinase-Related Protein-1 (TYRP-1) (Melanoma Marker) Antibody - With BSA and Azide - References

Orlow, S.J., et al. 1994. High-molecular-weight forms of tyrosinase and the tyrosinase-related proteins: evidence for a melanogenic complex. *J. Invest. Dermatol.* 103: 196-201. |