

TYRP1 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP17543c**Specification**

TYRP1 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [P17643](#)**TYRP1 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 7306**Other Names**

6-dihydroxyindole-2-carboxylic acid oxidase, DHICA oxidase, 11418-, Catalase B, Glycoprotein 75, Melanoma antigen gp75, Tyrosinase-related protein 1, TRP, TRP-1, TRP1, TYRP1, CAS2, TYRP, TYRRP

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

TYRP1 Antibody (Center) Blocking Peptide - Protein Information**Name** TYRP1 ([HGNC:12450](#))**Function**

Plays a role in melanin biosynthesis (PubMed:22556244, PubMed:16704458, PubMed: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). May regulate or influence the type of melanin synthesized (PubMed:22556244, PubMed:16704458). 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.

TYRP1 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

TYRP1 Antibody (Center) Blocking Peptide - Images**TYRP1 Antibody (Center) Blocking Peptide - Background**

This gene encodes a melanosomal enzyme that belongs to the tyrosinase family and plays an important role in the melanin biosynthetic pathway. Defects in this gene are the cause of rufous oculocutaneous albinism and oculocutaneous albinism type III.

TYRP1 Antibody (Center) Blocking Peptide - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Rausch, M.P., et al. J. Immunol. 185(5):2828-2835(2010) Eriksson, N., et al. PLoS Genet. 6 (6), E1000993 (2010) :Edwards, M., et al. PLoS Genet. 6 (3), E1000867 (2010) :Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)