

# DHICA Oxidase Rabbit mAb

Catalog # AP77142

## Product Information

Application	WB, IHC-P, IP
Primary Accession	<a href="#">P17643</a>
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Immunogen	A synthesized peptide derived from human TRP1
Purification	Affinity Chromatography
Calculated MW	60724

## Additional Information

Gene ID	7306
Other Names	TYRP1
Dilution	WB~~1/500-1/1000 IHC-P~~N/A IP~~N/A
Format	Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

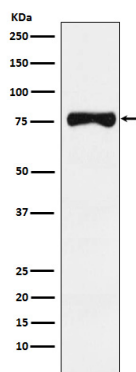
Name	TYRP1 ( <a href="#">HGNC:12450</a> )
Function	Plays a role in melanin biosynthesis (PubMed: <a href="#">16704458</a> , PubMed: <a href="#">22556244</a> , PubMed: <a href="#">23504663</a> ). Catalyzes the oxidation of 5,6-dihydroxyindole-2-carboxylic acid (DHICA) into indole-5,6-quinone-2-carboxylic acid in the presence of bound Cu(2+) ions, but not in the presence of Zn(2+) (PubMed: <a href="#">28661582</a> ). May regulate or influence the type of melanin synthesized (PubMed: <a href="#">16704458</a> , PubMed: <a href="#">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.

## Images

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