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TRP2 Rabbit pAb

Catalog # AP99206

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P40126
Other Accession	P40126
Reactivity	Human
Predicted	Rat, Pig, Cat, Mouse, Rabbit, Dog, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	59145
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human TRP2
Epitope Specificity	441-552/552
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the tyrosinase family.
SUBUNIT	Tyrosinase, TYRP1 and TYRP2 may form a multienzyme complex.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	DCT (Dopachrome Tautomerase) is a Protein Coding gene. Diseases associated with DCT include Microphthalmia and Hermansky-Pudlak Syndrome 3. Among its related pathways are Metabolism and Viral mRNA Translation. Gene Ontology (GO) annotations related to this gene include oxidoreductase activity and dopachrome isomerase activity. An important paralog of this gene is TYRP1.

Additional Information

Gene ID	1638
Other Names	OCA8; TRP-2; TYRP2; DT; TRP2; Tyrp-2; slaty; slt; TYRP2_HUMAN; DCT; L-dopachrome Delta-isomerase; Tyrosinase-related protein 2 (TRP-2 | TRP2); 5.3.3.12; TYRP2_MOUSE; DOPAchrome conversion factor; DOPAchrome isomerase; DOPAchrome oxidoreductase; SLATY locus protein; dopachrome tautomerase; tyrosine-related protein 2; dopachrome delta-isomerase; L-dopachrome isomerase; L-dopachrome tautomerase
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	DCT (HGNC:2709)
Synonyms	TYRP2
Function	Plays a role in melanin biosynthesis (PubMed: 33100333). Catalyzes the conversion of L-dopachrome into 5,6-dihydroxyindole-2- carboxylic acid (DHICA).
Cellular Location	Melanosome membrane; Single-pass type I membrane protein. Melanosome {ECO:0000250|UniProtKB:P29812}. Note=Proper trafficking to melanosome is regulated by SGSM2, ANKRD27, RAB9A, RAB32 and RAB38 {ECO:0000250|UniProtKB:P29812}

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.