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Tyrosinase Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51594

Product Information

Application	WB
Primary Accession	P14679
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	60393

Additional Information

Gene ID	7299
Other Names	Tyrosinase, LB24-AB, Monophenol monooxygenase, SK29-AB, Tumor rejection antigen AB, TYR
Target/Specificity	KLH conjugated synthetic peptide derived from human Tyrosinase
Dilution	WB~~ 1:1000
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	TYR (HGNC:12442)
Function	This is a copper-containing oxidase that functions in the formation of pigments such as melanins and other polyphenolic compounds. Catalyzes the initial and rate limiting step in the cascade of reactions leading to melanin production from tyrosine (By similarity). In addition to hydroxylating tyrosine to DOPA (3,4- dihydroxyphenylalanine), also catalyzes the oxidation of DOPA to DOPA- quinone, and possibly the oxidation of DHI (5,6-dihydroxyindole) to indole-5,6 quinone (PubMed:28661582).
Cellular Location	Melanosome membrane; Single-pass type I membrane protein. Melanosome {ECO:0000250|UniProtKB:P11344}. Note=Proper trafficking to melanosome is regulated by SGSM2, ANKRD27, RAB9A, RAB32 and RAB38 {ECO:0000250|UniProtKB:P11344}

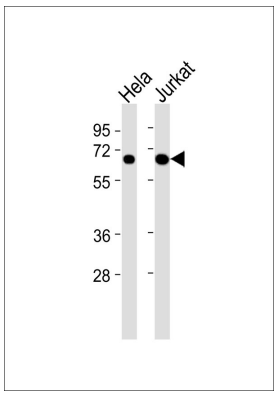
Background

This is a copper-containing oxidase that functions in the formation of pigments such as melanins and other polyphenolic compounds. Catalyzes the rate-limiting conversions of tyrosine to DOPA, DOPA to DOPA-quinone and possibly 5,6-dihydroxyindole to indole-5,6 quinone.

References

Giebel L.B.,et al.Genomics 9:435-445(1991).
Kwon B.S.,et al.Proc. Natl. Acad. Sci. U.S.A. 84:7473-7477(1987).
Kwon B.S.,et al.Proc. Natl. Acad. Sci. U.S.A. 85:6352-6352(1988).
Bouchard B.,et al.J. Exp. Med. 169:2029-2042(1989).
Chintamaneni C.D.,et al.Proc. Natl. Acad. Sci. U.S.A. 88:5272-5276(1991).

Images



All lanes : Anti-Tyrosinase Antibody at 1:1000 dilution Lane 1: Hela whole cell lysates Lane 2: Jurkat whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L),Peroxidase conjugated at 1/10000 dilution Predicted band size : 60 kDa Blocking/Dilution buffer: 5% NFDM/TBST.