10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-Tyrosinase Antibody

Catalog # AP51594

Product Information

Application	WB, IHC, IF/IC
Primary Accession	P14679
Reactivity	Human, Mouse, Rat
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
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Tyrosinase. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

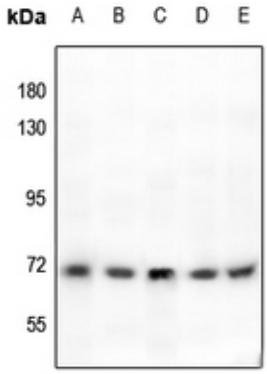
Protein Information

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}

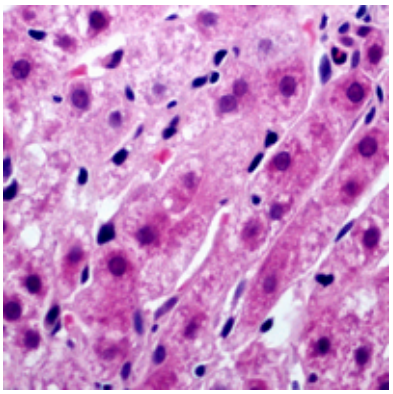
References

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).

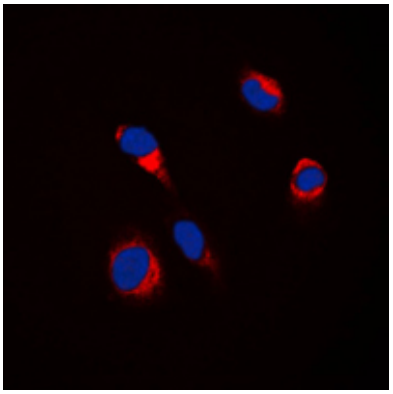
Images



Western blot analysis of Tyrosinase expression in A375 (A), Podocyte (B), Beas2B (C), PMVEC (D), BV2 (E) whole cell lysates. (Predicted band size: 60 kD; Observed band size: 70 kD)



Immunohistochemical analysis of Tyrosinase staining in human liver formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. AEC was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Tyrosinase staining in HepG2 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

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