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TYR Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7345c

Specification

TYR Antibody (Center) - Product Information

Application	**IF, WB, IHC-P,E**
Primary Accession	P14679
Other Accession	P11344
Reactivity	**Human**
Predicted	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit Ig**
Calculated MW	**60393**
Antigen Region	**176-205**

TYR Antibody (Center) - Additional Information

Gene ID 7299

Other Names
Tyrosinase, LB24-AB, Monophenol monooxygenase, SK29-AB, Tumor rejection antigen AB, TYR

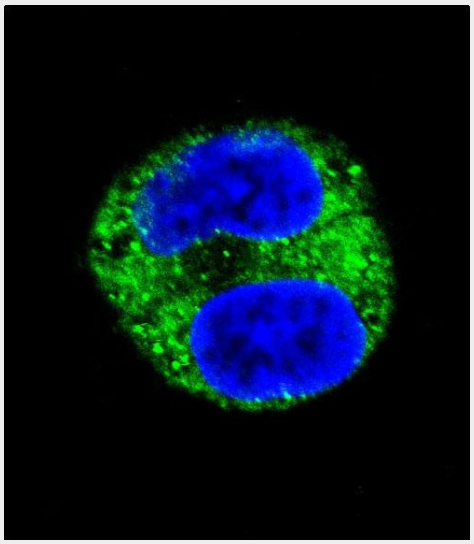
Target/Specificity
This TYR antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 176-205 amino acids from the Central region of human TYR.

Dilution
IF~~1:10~50
WB~~1:1000
IHC-P~~1:10~50

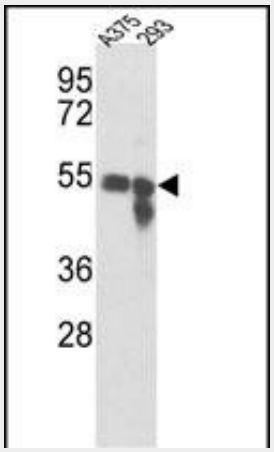
Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions



Confocal immunofluorescent analysis of TYR Antibody (Center)(Cat#AP7345c) with HepG2 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green).DAPI was used to stain the cell nuclear (blue).



Western blot analysis of Tyrosinase Antibody (Center) (Cat.#AP7345c) in A375, 293 cell line lysates (35ug/lane). Tyrosinase (arrow) was detected using the purified Pab.

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TYR Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

TYR Antibody (Center) - Protein Information

Name TYR

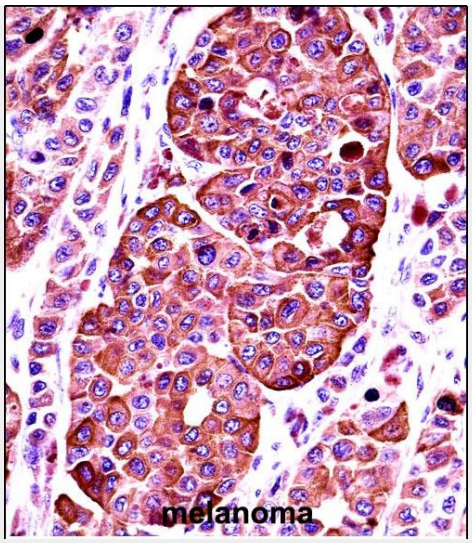
Function
This is a copper-containing oxidase that functions in the formation of pigments such as melanins and other polyphenolic compounds (By similarity). Catalyzes the initial and rate limiting step in the cascade of reactions leading to melanin production from tyrosine (By similarity). In addition 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 (By similarity).

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}

TYR Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture



TYR Antibody (Center) (AP7345c)immunohistochemistry analysis in formalin fixed and paraffin embedded human melanoma followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of TYR Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

TYR Antibody (Center) - Background

TYR catalyzes the first 2 steps, and at least 1 subsequent step, in the conversion of tyrosine to melanin. The protein has both tyrosine hydroxylase and dopa oxidase catalytic activities, and requires copper for function. Mutations in this protein result in oculocutaneous albinism, and nonpathologic polymorphisms result in skin pigmentation variation.

TYR Antibody (Center) - References

Ostankovitch,M. J. Immunol. 182 (8), 4830-4835 (2009)
Chintamaneni,C.D. Proc. Natl. Acad. Sci. U.S.A. 88 (12), 5272-5276 (1991)