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

# Tyrosinase Antibody

Rabbit mAb
Catalog # AP91227

## Product Information

| | |
|---|---|
| **Application** | WB, IHC, IF, ICC, IHF |
| **Primary Accession** | P14679 |
| **Reactivity** | Human |
| **Clonality** | Monoclonal |
| **Other Names** | ATN; CMM8; LB24 AB; SHEP3; SK29 AB; Tumor rejection antigen AB; TYR; |
| **Isotype** | Rabbit IgG |
| **Host** | Rabbit |
| **Calculated MW** | 60393 |

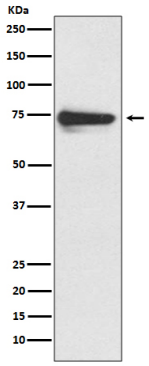
## Additional Information

| | |
|---|---|
| **Dilution** | WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 |
| **Purification** | Affinity-chromatography |
| **Immunogen** | A synthesized peptide derived from human Tyrosinase |
| **Description** | Tyrosinase, found in the membrane of melanosomes, is a key enzyme in the biosynthesis of melanin pigments. It is a melanocyte differentiation antigen and is expressed in normal melanocytes and malignant melanomas. Tyrosinase is implicated to be an antigen target for melanoma vaccines. |
| **Storage Condition and Buffer** | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle. |

## 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} |

## Images




Western blot analysis of Tyrosinase expression in human melanoma lysate.

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