TRP1 Rabbit mAb

Catalog No: #49752

Package Size: #49752-1 50ul #49752-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

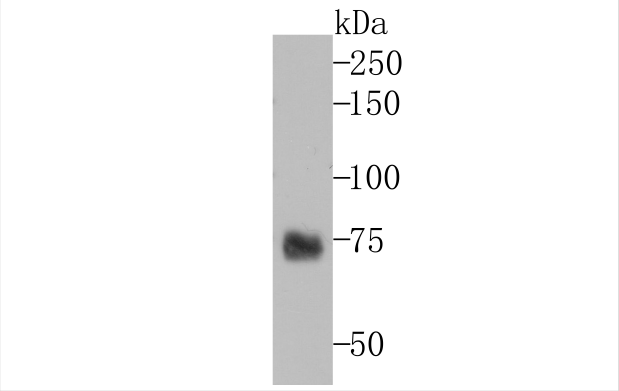
Description

Product Name	TRP1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JU36-48
Purification	ProA affinity purified
Applications	WB,ICC,IHC,IP
Species Reactivity	Hu
Immunogen Description	Recombinant protein
Other Names	5 antibody 5,6 dihydroxyindole 2 carboxylic acid oxidase antibody 6-dihydroxyindole-2-carboxylic acid oxidase antibody b-PROTEIN antibody CAS2 antibody Catalase B antibody CATB antibody DHICA oxidase antibody Glycoprotein 75 antibody GP75 antibody Melanoma antigen gp75 antibody OCA3 antibody TRP antibody TRP-1 antibody TRP1 antibody Tyrosinase related protein 1 antibody Tyrosinase-related protein 1 antibody TYRP antibody TYRP1 antibody TYRP1_HUMAN antibody TYRRP antibody
Accession No.	Swiss-Prot#:P17643
Uniprot	P17643
GeneID	7306;
Calculated MW	72 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

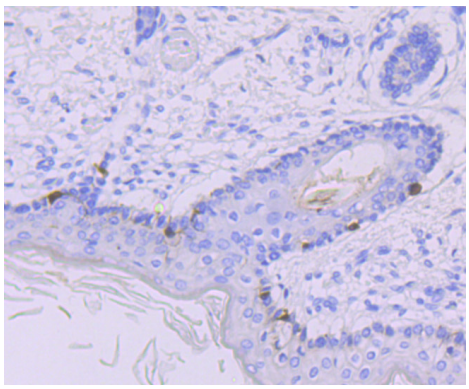
Application Details

WB: 1:500-1:2,000 IHC: 1:50-1:200 ICC: 1:50-1:100IP: 1:10-1:50

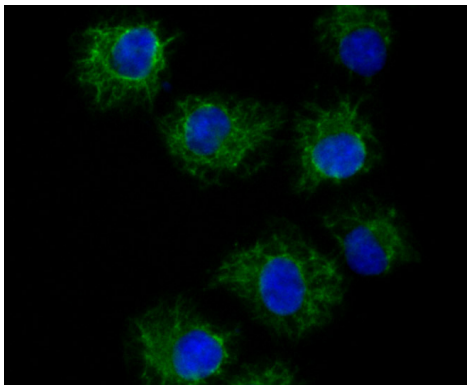
Images



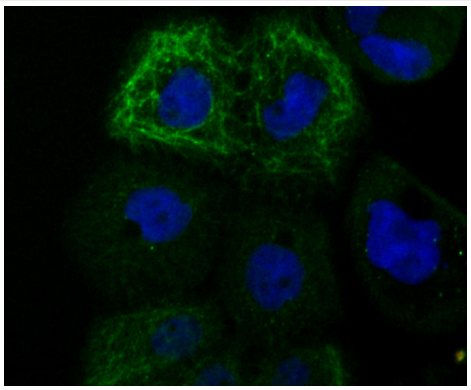
Western blot analysis of TRP1 on melanoma tissue lysate using anti-TRP1 antibody at 1/500 dilution.



Immunohistochemical analysis of paraffin-embedded human skin tissue using anti-TRP1 antibody. Counter stained with hematoxylin.



ICC staining TRP1 in HUVEC cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining TRP1 in A431 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Background

Tyrosinase (TYR), a type I membrane protein and copper-containing enzyme, is involved in the production of melanin, the primary pigment found in vertebrates. Melanin biogenesis requires the enzymatic activity of TYR, which catalyzes the critical and rate-limiting step of tyrosine hydroxylation in the biosynthesis of melanin. Defects effecting TYR activity result in various forms of albinism. The TYR-related proteins, TRP1 and TRP2, are also specifically expressed in melanocytes, and they likewise contribute to the synthesis of melanin within the melanosomes. The TRPs, including TYR, all share a similar transmembrane region, contain two metal-binding regions and a cysteine-rich epidermal growth factor motif, and are localized in the melanosomal membrane. These proteins, however, have distinct catalytic activity, and they individually contribute to the biosynthesis of melanin biopolymers. The TRPs are believed to exists as a multi-enzyme complex, as these proteins form aggregates together, and the expression of TRP1 also helps stabilize TYR in melanocytes.

References

Note: This product is for in vitro research use only