

For Research Use Only

Tyrosinase Polyclonal antibody

Catalog Number: 31291-1-AP



Basic Information

Catalog Number: 31291-1-AP	GenBank Accession Number: BC027179	Purification Method: Antigen affinity Purification
Size: 150ul , Concentration: 350 ug/ml by Nanodrop;	GeneID (NCBI): 7299	Recommended Dilutions: WB 1:500-1:2000 IHC 1:200-1:800
Source: Rabbit	UNIPROT ID: P14679	
Isotype: IgG	Full Name: tyrosinase (oculocutaneous albinism IA)	
Immunogen Catalog Number: AG34940	Calculated MW: 529 aa, 60 kDa	
	Observed MW: 70 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB : A375 cells, mouse liver tissue, mouse skin tissue, rat skin tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : human skin cancer tissue,

Background Information

Tyrosinase is a copper-containing oxidase that functions in the formation of pigments such as melanins and other polyphenolic compounds. It's a melanocyte-specific enzyme critical for the synthesis of melanin, a process normally restricted to a post-Golgi compartment termed the melanosome. Loss-of-function mutations in tyrosinase are the cause of oculocutaneous albinism. The 60-kDa tyrosinase core polypeptide is modified in the endoplasmic reticulum (ER) by cotranslational addition of multiple N-linked glycans, producing the 70-kDa species. Complex sugar modifications in the Golgi apparatus further increases tyrosinase's molecular mass to 80 kDa, the size of the mature wild-type (WT) isoform. (PMID:10823941)

Storage

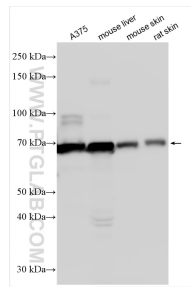
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

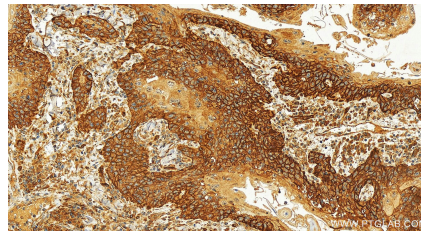
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 31291-1-AP (Tyrosinase antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human skin cancer tissue slide using 31291-1-AP (Tyrosinase antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).