

For Research Use Only

Tyrosinase Recombinant antibody, PBS Only

Catalog Number: 84723-3-PBS



Basic Information

Catalog Number: 84723-3-PBS	GenBank Accession Number: BC027179	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 7299	CloneNo.: 242174D2
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: 80 kDa	

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human

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

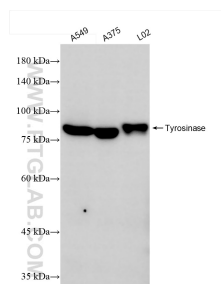
Storage:
Store at -80°C.

Storage Buffer:
PBS Only

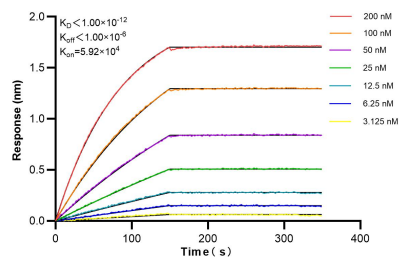
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 84723-3-RR (Tyrosinase antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84723-3-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 84723-3-RR against Human Tyrosinase were performed. The affinity constant is below 1 pM.