

For Research Use Only

HGD Recombinant antibody, PBS Only

Catalog Number: 84931-5-PBS



Basic Information

Catalog Number: 84931-5-PBS	GenBank Accession Number: BC020792	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 3081	CloneNo.: 242485E11
Source: Rabbit	UNIPROT ID: Q93099	
Isotype: IgG	Full Name: homogentisate 1,2-dioxygenase (homogentisate oxidase)	
Immunogen Catalog Number: AG9544	Calculated MW: 37 kDa, 50 kDa	
	Observed MW: 50 kDa	

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human, rat

Background Information

Homogentisate 1,2-dioxygenase (HGD), also named as HGO, is a mononuclear Fe(II)-dependent oxygenase that catalyzes the third step in the pathway for the catabolism of tyrosine, the conversion of homogentisate (HG) to maleylacetoacetate (MAA) and it can exist as a dimer or trimer (PMID:14678794). HGD consists of a single type of subunit with no intermolecular disulfide bridges and requires Fe²⁺ as a cofactor (PMID: 7705358). Defects in HGD are the cause of alkaptonuria (AKU) (PMID:10594001).

Storage

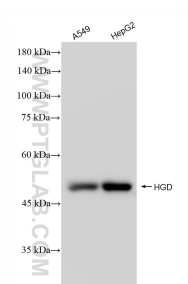
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

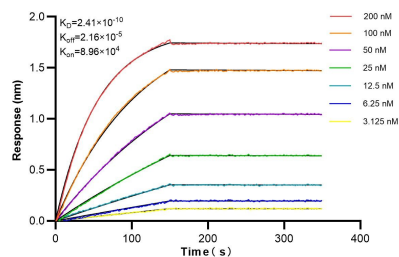
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 84931-5-RR (HGD antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84931-5-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 84931-5-RR against Human HGD were performed. The affinity constant is 1.38 nM.