For Research Use Only

HGD Recombinant antibody

Catalog Number:84931-5-RR

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Basic Information

Catalog Number:
84931-5-RR

Size:
100ul , Concentration: 1000 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG9544

GenBank Accession Number:
BC020792

GeneID (NCBI):
3081

UNIPROT ID:
Q93099

Full Name:
homogentisate 1,2-dioxygenase (homogentisate oxidase)

Calculated MW:
37 kDa, 50 kDa

Observed MW:
50 kDa

Purification Method:
Protein A purfication

CloneNo.:
242485E11

Recommended Dilutions:
WB 1:5000-1:50000

Applications

Tested Applications:
WB, ELISA

Species Specificity:
human, rat

Positive Controls:

WB : A549 cells, HepG2 cells

Background Information

Homogentisate1,2-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 exsit 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).

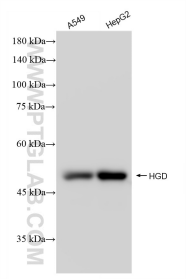
Storage

Storage:
Store at -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

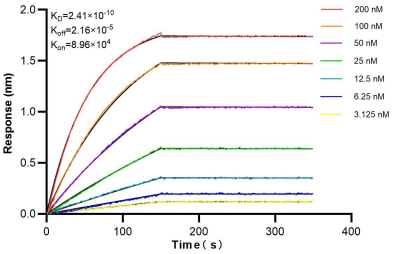
***** 20ul sizes contain 0.1% BSA**

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
W: ptglab.com

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.



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