

For Research Use Only

HGD Recombinant antibody

Catalog Number: 84931-5-RR



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 purification

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

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 -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

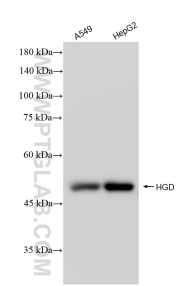
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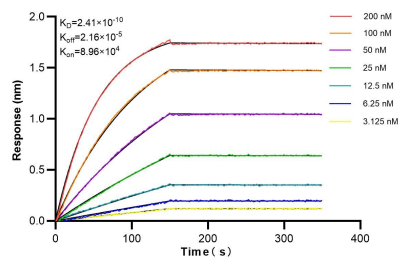
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Selected Validation Data



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.