

For Research Use Only

# HGD Polyclonal antibody

Catalog Number: 16465-1-AP



## Basic Information

Catalog Number:

16465-1-AP

Size:

550 µg/ml

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:

Antigen affinity purification

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:20-1:200

## Applications

Tested Applications:

IHC, WB, ELISA

Species Specificity:

human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

Positive Controls:

WB: HepG2 cells, HeLa cells, rat liver tissue, mouse liver tissue

IHC: human liver tissue,

## 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 Fe<sup>2+</sup> 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

For technical support and original validation data for this product please contact:

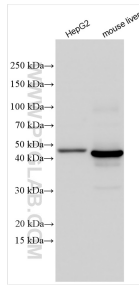
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

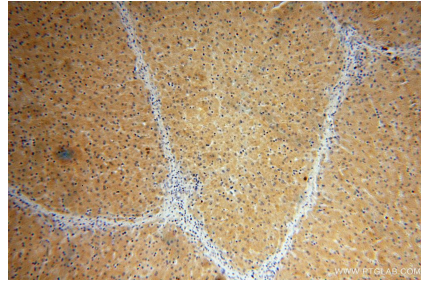
W: [ptgcn.com](http://ptgcn.com)

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

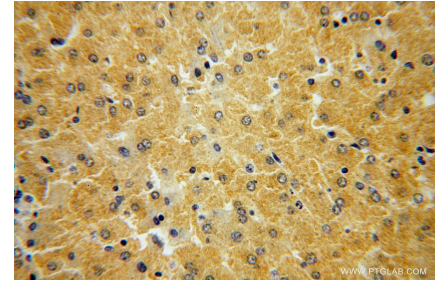
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 16465-1-AP (HGD antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver using 16465-1-AP (HGD antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver using 16465-1-AP (HGD antibody) at dilution of 1:100 (under 40x lens).