

For Research Use Only

# HGD Polyclonal antibody

Catalog Number: 16465-1-AP



## Basic Information

<b>Catalog Number:</b> 16465-1-AP	<b>GenBank Accession Number:</b> BC020792	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 550 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3081	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:20-1:200
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q93099	
<b>Isotype:</b> IgG	<b>Full Name:</b> homogentisate 1,2-dioxygenase (homogentisate oxidase)	
<b>Immunogen Catalog Number:</b> AG9544	<b>Calculated MW:</b> 37 kDa, 50 kDa	
	<b>Observed MW:</b> 50 kDa	

## Applications

### Tested Applications:

WB, IHC, 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

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

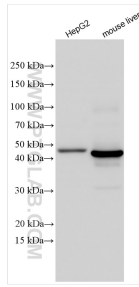
For technical support and original validation data for this product please contact:

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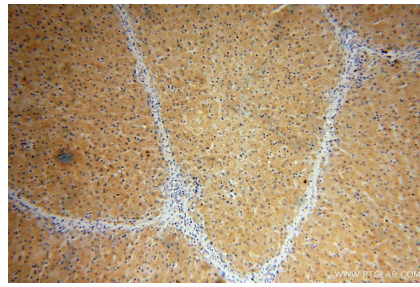
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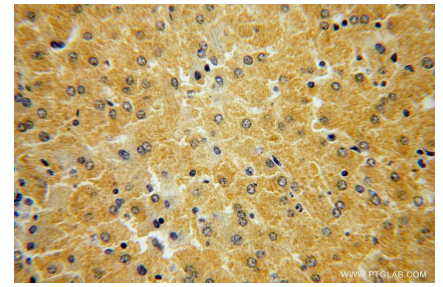
## Selected Validation Data



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).