

HGD Polyclonal antibody

Catalog Number: 16465-1-AP

Basic Information

Catalog Number: 16465-1-AP	GenBank Accession Number: BC020792	Purification Method: Antigen affinity purification
Size: 550 µg/ml	GeneID (NCBI): 3081	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:20-1:200
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: IHC, WB, ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB : HepG2 cells, HeLa cells, rat liver tissue, mouse liver tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	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 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

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

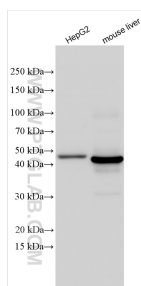
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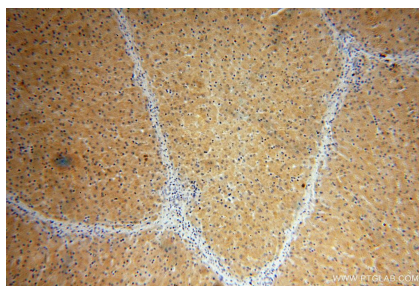
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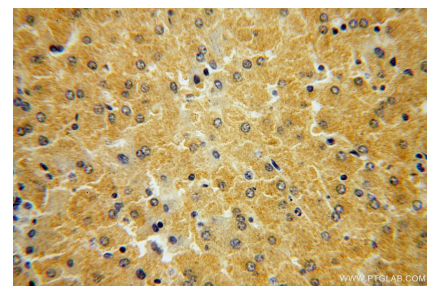
Selected Validation Data



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).