

For Research Use Only

# GLDC Polyclonal antibody

Catalog Number: 24827-1-AP

Featured Product

4 Publications



## Basic Information

### Catalog Number:

24827-1-AP

### Size:

150ul, Concentration: 600 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG20410

### GenBank Accession Number:

BC111995

### GeneID (NCBI):

2731

### UNIPROT ID:

P23378

### Full Name:

glycine dehydrogenase (decarboxylating)

### Calculated MW:

1020 aa, 113 kDa

### Observed MW:

113 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:100-1:400

## Applications

### Tested Applications:

WB, IP, IHC, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse

### Cited Species:

human, mouse

### Positive Controls:

WB: mouse liver tissue,

IP: mouse liver tissue,

IHC: human liver cancer tissue,

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

## Background Information

GLDC (Glycine dehydrogenase [decarboxylating], mitochondrial) is also named as GCSP and belongs to the GcvP family. It induces dramatic changes in glycolysis and glycine/serine metabolism that leads to changes in pyrimidine metabolism to regulate cancer cell proliferation (PMID:22225612).

## Notable Publications

Author	Pubmed ID	Journal	Application
Shengya Tian	31562192	Life Sci Alliance	WB
Teresa W M Fan	31337706	J Biol Chem	WB
Jiliang Xia	35817773	Nat Commun	WB

## 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

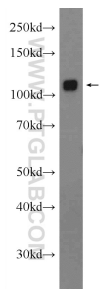
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

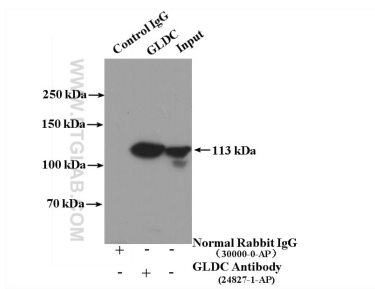
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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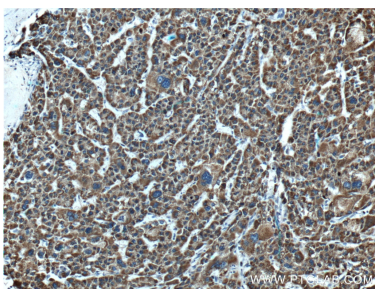
Selected Validation Data



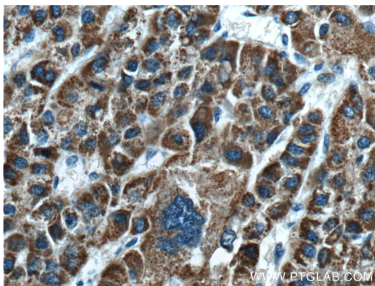
mouse liver tissue were subjected to SDS PAGE followed by western blot with 24827-1-AP (GLDC Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-GLDC (IP:24827-1-AP, 4ug; Detection:24827-1-AP 1:1000) with mouse liver tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 24827-1-AP (GLDC Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 24827-1-AP (GLDC Antibody) at dilution of 1:200 (under 40x lens).