

For Research Use Only

# DLD Polyclonal antibody

Catalog Number: 16431-1-AP

Featured Product

27 Publications



## Basic Information

### Catalog Number:

16431-1-AP

### Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG9729

### GenBank Accession Number:

BC018696

### GeneID (NCBI):

1738

### UNIPROT ID:

P09622

### Full Name:

dihydrolipoamide dehydrogenase

### Calculated MW:

509 aa, 54 kDa

### Observed MW:

56 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:2000-1:10000

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

IHC 1:500-1:2000

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF, IP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

**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**: L02 cells, HeLa cells, human liver tissue, HepG2 cells, human brain tissue, mouse heart tissue, rat brain tissue, mouse liver tissue, rat heart tissue

**IP**: mouse liver tissue,

**IHC**: human liver cancer tissue, human heart tissue, human kidney tissue, human testis tissue, human liver tissue

**IF/ICC**: HepG2 cells,

## Background Information

DLD(Dihydrolipoamide dehydrogenase, mitochondrial) is also named as GCSL, LAD, PHE3 and belongs to the class-I pyridine nucleotide-disulfide oxidoreductase family. It catalyzes the oxidation of dihydrolipoamide, hE3 uses two molecules: non-covalently bound FAD and a transiently bound substrate, NAD<sup>+</sup>. DLD is involved in the hyperactivation of spermatazoa during capacitation and in the spermatazoal acrosome reaction.

## Notable Publications

Author	Pubmed ID	Journal	Application
Rosalba Carozzo	25251739	Mitochondrion	WB
McKenzie Patrick	36443523	Nat Metab	WB
Henrick Horita	29786648	Proteomes	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

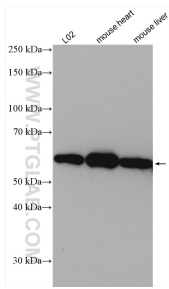
For technical support and original validation data for this product please contact:

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

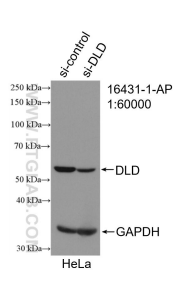
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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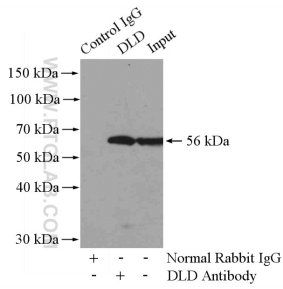
Selected Validation Data



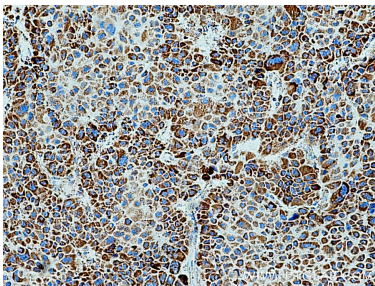
Various lysates were subjected to SDS PAGE followed by western blot with 16431-1-AP (DLD antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



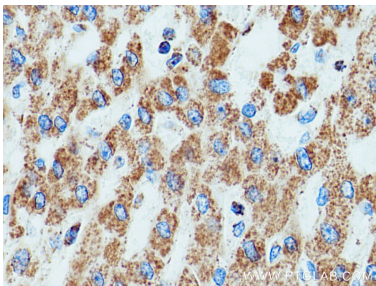
WB result of DLD antibody (16431-1-AP; 1:60000; incubated at room temperature for 1.5 hours) with sh-Control and sh-DLD transfected HeLa cells.



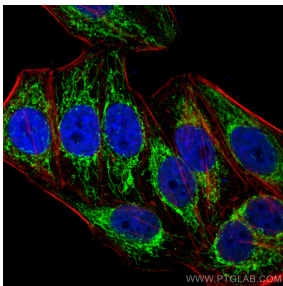
IP result of anti-DLD (IP:16431-1-AP, 4ug; Detection:16431-1-AP 1:1000) with mouse liver tissue lysate 6000ug.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 16431-1-AP (DLD antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 16431-1-AP (DLD antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using DLD antibody (16431-1-AP) at dilution of 1:200 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-Phalloidin (red).