

For Research Use Only

D2HGDH Polyclonal antibody

Catalog Number: 13895-1-AP

Featured Product

13 Publications



Basic Information

Catalog Number:

13895-1-AP

Size:

150ul, Concentration: 300 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG4857

GenBank Accession Number:

BC036604

GeneID (NCBI):

728294

UNIPROT ID:

Q8N465

Full Name:

D-2-hydroxyglutarate dehydrogenase

Calculated MW:

521 aa, 56 kDa

Observed MW:

56 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 1:50-1:500

IF/ICC 1:20-1:200

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Positive Controls:

WB : mouse kidney tissue, human liver tissue, human heart tissue, rat liver tissue, mouse liver tissue

IP : mouse liver tissue,

IHC : human liver cancer tissue,

IF/ICC : HepG2 cells,

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

D2HGDH(D-2-hydroxyglutarate dehydrogenase, mitochondrial) is also named as D2HGD and belongs to the FAD-binding oxidoreductase/transferase type 4 family. It catalyzes the oxidation of D-2-hydroxyglutarate to alpha-ketoglutarate. Defects in D2HGDH are the cause of D-2-hydroxyglutaric aciduria type 1 (D2HGA1). It has 2 isoforms produced by alternative splicing.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|--------------------|-----------|----------|-------------|
| Giulia Notarangelo | 36173860 | Science | WB |
| Krell Daniel D | 21625441 | PLoS One | IHC |
| Raffaella S Berger | 31092874 | Sci Rep | |

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

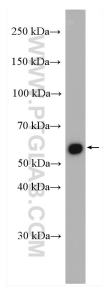
For technical support and original validation data for this product please contact:

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

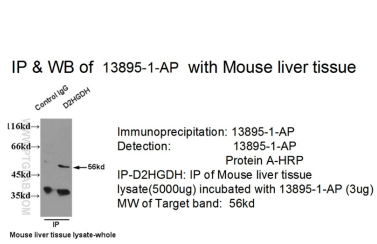
E: proteintech@ptglab.com
W: ptglab.com

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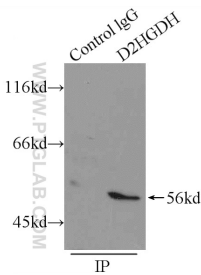
Selected Validation Data



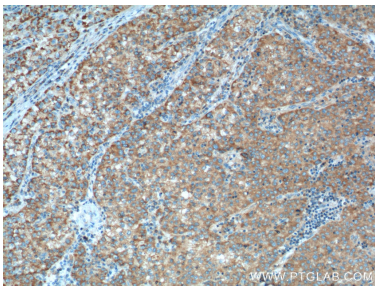
mouse kidney tissue were subjected to SDS PAGE followed by western blot with 13895-1-AP (D2HGDH antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



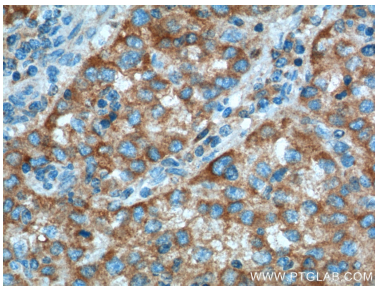
IP result of anti-D2HGDH (13895-1-AP for IP and Detection) with mouse liver tissue lysate.



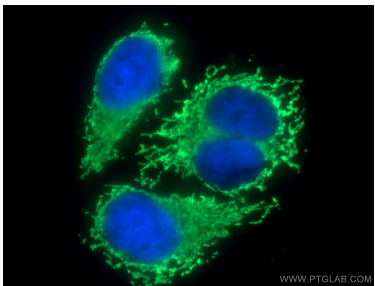
IP result of anti-D2HGDH (IP:13895-1-AP, 3ug; Detection:13895-1-AP 1:500) with mouse liver tissue lysate 5000ug.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 13895-1-AP (D2HGDH Antibody) at dilution of 1:200 (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 13895-1-AP (D2HGDH Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 13895-1-AP (D2HGDH antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).