

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

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: 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,

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

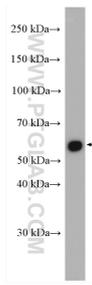
For technical support and original validation data for this product please contact:

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

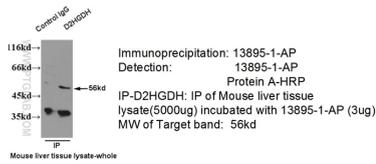
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data

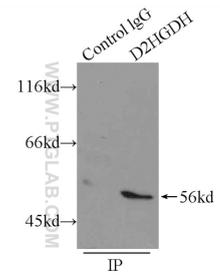


mouse kidney tissue were subjected to SDS PAGE followed by western blot with 13895-1-AP (D2HGDH antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.

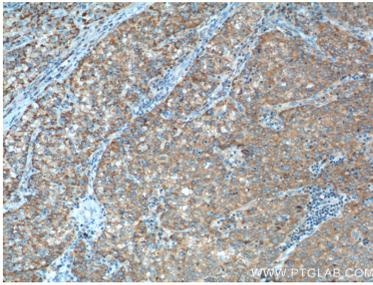
IP & WB of 13895-1-AP with Mouse liver tissue



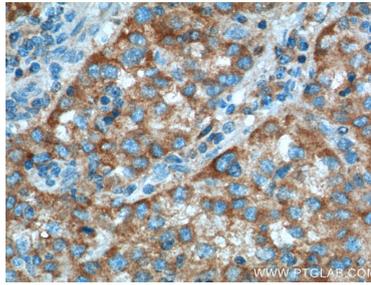
IP result of anti-D2HGDH (13895-1-AP for IP and Detection) with mouse liver tissue lysate.



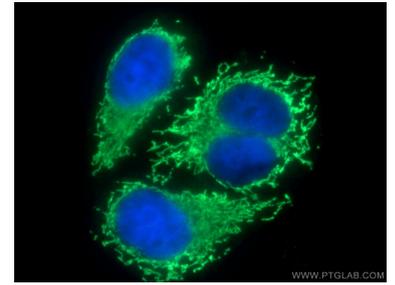
IP result of anti-D2HGDH (IP:13895-1-AP, 3ug; Detection:13895-1-AP 1:500) with mouse liver tissue lysate 5000ug.



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).