For Research Use Only

D2HGDH Monoclonal antibody

Catalog Number:66364-1-Ig

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Basic Information

Catalog Number:
66364-1-Ig

Size:
150ul , Concentration: 1600 μg/ml by Nanodrop and 1000 μg/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG5036

GenBank Accession Number:
BC036604

GeneID (NCBI):
728294

Full Name:
D-2-hydroxyglutarate dehydrogenase

Calculated MW:
521 aa, 56 kDa

Observed MW:
56 kDa

Purification Method:
Protein G purification

CloneNo.:
1E9B3

Recommended Dilutions:
WB 1:1000-1:8000
IHC 1:100-1:400
IF 1:400-1:1600

Applications

Tested Applications:
FC, IF, IHC, WB, ELISA

Species Specificity:
human, mouse, rat

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 : NIH/3T3 cells, C6 cells, rat heart tissue

IHC : human liver cancer tissue,

IF : 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).

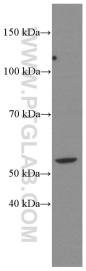
Storage

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

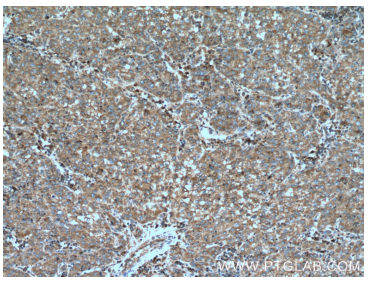
*** 20ul sizes contain 0.1% BSA

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

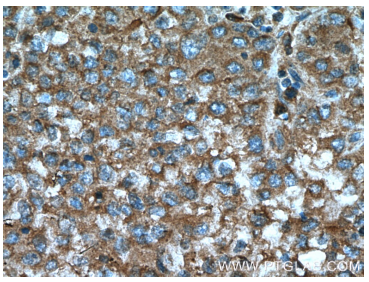
Selected Validation Data



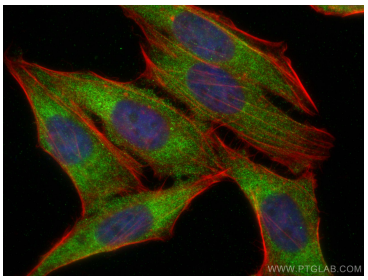
NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 66364-1-Ig (D2HGDH Antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



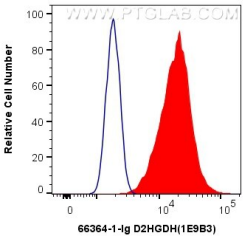
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66364-1-Ig (D2HGDH Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66364-1-Ig (D2HGDH Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using D2HGDH antibody (66364-1-Ig, Clone: 1E9B3) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-phalloidin (red).



1X10^6 HepG2 cells were intracellularly stained with 0.4 ug Anti-Human D2HGDH (66364-1-Ig, Clone:1E9B3) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).