For Research Use Only

MDH1 Polyclonal antibody

Catalog Number:15904-1-AP Featured Product 21 Publications

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Basic Information

Catalog Number:
15904-1-AP

Size:
173 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG8744

GenBank Accession Number:
BC001484

GeneID (NCBI):
4190

UNIPROT ID:
P40925

Full Name:
malate dehydrogenase 1, NAD (soluble)

Calculated MW:
334 aa, 36 kDa

Observed MW:
36 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:5000-1:50000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF 1:10-1:100

Applications

Tested Applications:
FC, IF/ICC, IHC, IP, WB, ELISA

Cited Applications:
WB, IP, IF, IHC

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, 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 : HepG2 cells, HL-60 cells, HEK-293 cells, mouse liver tissue, rat liver tissue

IP : HepG2 cells,

IHC : human renal cell carcinoma tissue, human liver cancer tissue, rat heart tissue, mouse kidney tissue

IF : HepG2 cells,

Background Information

MDH1 (Malate dehydrogenase, cytoplasmic) is also named as MDHA and belongs to the LDH/MDH superfamily and MDH type 2 family which catalyzes the reversible oxidation of malate to oxaloacetate, utilizing the NAD/NADH cofactor system in the citric acid cycle. It can exsit as a dimer and the dimeric MDH1 is the mitochondrial isoenzyme, whereas the tetrameric MDH2 is the glycosomal isoenzyme.(PMID:10693743)

Notable Publications

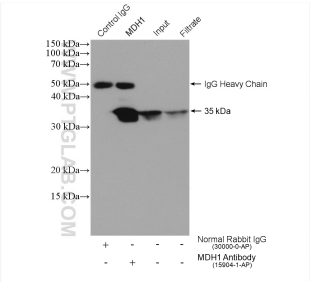
Author	Pubmed ID	Journal	Application
Teresa W-M Fan	36150727	J Immunol	
Xiaoyu Ma	25301052	Nat Commun	WB
Jia-Yuan Zhang	34012073	Cell Res	WB

Storage

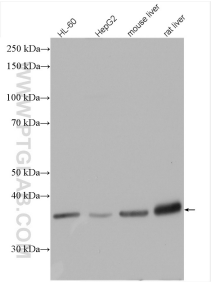
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

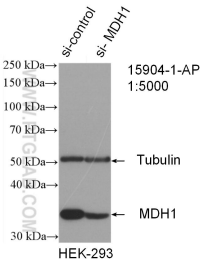
Selected Validation Data



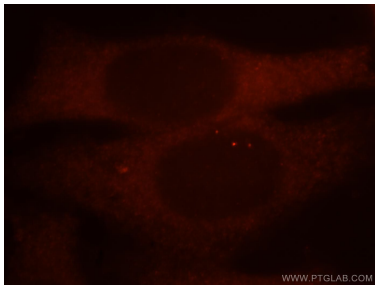
IP result of anti-MDH1 (IP:15904-1-AP, 4ug; Detection:15904-1-AP 1:10000) with HepG2 cells lysate 960 ug.



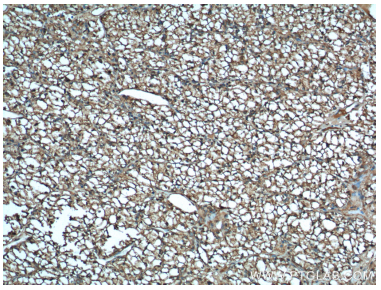
HepG2 cells were subjected to SDS PAGE followed by western blot with 15904-1-AP (MDH1 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



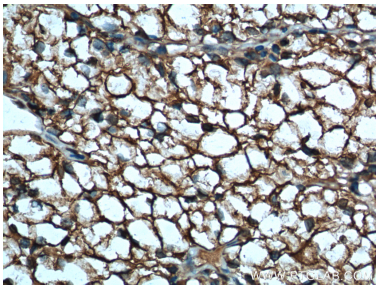
WB result of MDH1 antibody (15904-1-AP; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-MDH1 transfected HEK-293 cells.



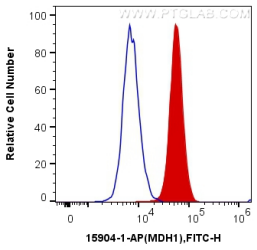
Immunofluorescent analysis of HepG2 cells, using MDH1 antibody 15904-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



Immunohistochemical analysis of paraffin-embedded human renal cell carcinoma tissue slide using 15904-1-AP (MDH1 Antibody) at dilution of 1:100 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human renal cell carcinoma tissue slide using 15904-1-AP (MDH1 Antibody) at dilution of 1:100 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10^6 HepG2 cells were intracellularly stained with 0.4 ug Anti-Human MDH1 (15904-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug x. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).