For Research Use Only

MDH1 Polyclonal antibody

Catalog Number: 15904-1-AP

Featured Product

29 Publications



Basic Information

Catalog Number: GenBank Accession Number: 15904-1-AP BC001484

Concentration: GeneID (NCBI): 4190

Source: UNIPROT ID:

Rabbit P40925
Isotype: Full Name:
IgG malate dehydrogenase 1, NAD

Immunogen Catalog Number: (soluble)

immunogen Catatog Number:

AG8744

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/ICC: 1:300-1:1200

FC (Intra): 0.40 ug per 10^6 cells in a

100 µl suspension

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications: WB, IHC, IF, IP Species Specificity: human, mouse, rat Cited Species: 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: 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/ICC : HepG2 cells,
FC (Intra) : 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, pH7.3 $\,$

Aliquoting is unnecessary for -20°C storage

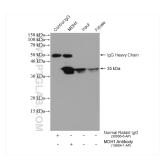
For technical support and original validation data for this product please contact:

T: 4006900926 E: Proteintech-CN@ptglab.com

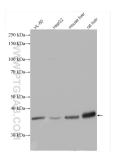
W: ptgcn.cor

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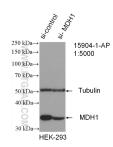
Selected Validation Data



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



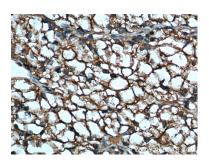
HepG2 cells were subjected to SDS PAGE followed by western blot with 15904-1-AP (MDH1 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.



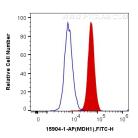
WB result of MDH1 antibody (15904-1-AP; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-MDH1 transfected HEK-293 cells.



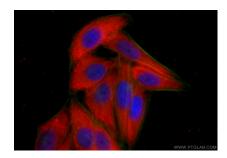
Immunohistochemical analysis of paraffinembedded human renal cell carcinoma tissue slide using 15904-1-AP (MDH1 Antibody) at dilution of 1:100 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded 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).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using MDH1 antibody (15904-1-AP) at dilution of 1:600 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4), CL488-Phalloidin (green).