

For Research Use Only

ME1 Polyclonal antibody

Catalog Number: 16619-1-AP

Featured Product

20 Publications



Basic Information

Catalog Number:

16619-1-AP

Size:

150ul, Concentration: 550 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG9916

GenBank Accession Number:

BC025246

GeneID (NCBI):

4199

UNIPROT ID:

P48163

Full Name:

malic enzyme 1, NADP(+)-dependent, cytosolic

Calculated MW:

572 aa, 64 kDa

Observed MW:

55-64 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:12000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

Applications

Tested Applications:

WB, IHC, 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 : HeLa cells, mouse liver tissue, mouse placenta tissue, MCF-7 cells, rat liver tissue

IP : mouse liver tissue,

IHC : human liver tissue, human placenta tissue

Background Information

ME1(NADP-dependent malic enzyme) belongs to the malic enzymes family. This malic enzyme catalyzes the reversible oxidative decarboxylation of malate and is a link between the glycolytic pathway and the citric acid cycle. The reaction is L-malate plus NADP(+) to form pyruvate, CO₂, and NADPH. The predicted protein contains 572 amino acids and has a calculated molecular mass of 64.1 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Lorenzo M Fernandes	30250042	Sci Rep	IHC, WB
Lei Ye	33491741	Int J Oncol	WB
Al-Dwairi Ahmed A	23056418	PLoS One	IHC

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

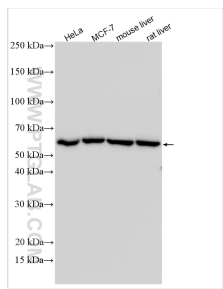
For technical support and original validation data for this product please contact:

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

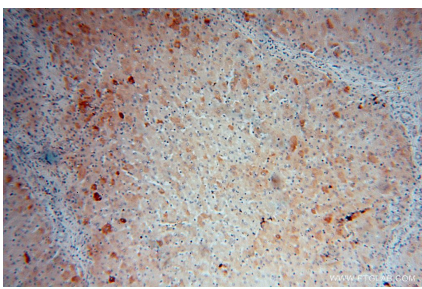
E: proteintech@ptglab.com
W: ptglab.com

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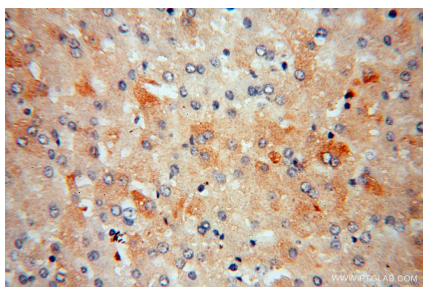
Selected Validation Data



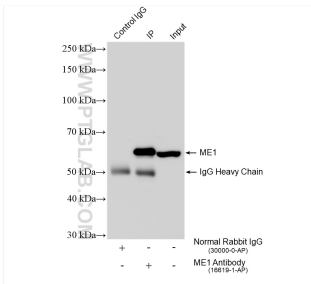
Various lysates were subjected to SDS PAGE followed by western blot with 16619-1-AP (ME1 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver using 16619-1-AP (ME1 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver using 16619-1-AP (ME1 antibody) at dilution of 1:100 (under 40x lens).



IP result of anti-ME1 (IP:16619-1-AP, 4ug; Detection:16619-1-AP 1:2000) with mouse liver tissue lysate 2400 ug.