For Research Use Only

ME1 Polyclonal antibody

Catalog Number:16619-1-AP Featured Product 20 Publications

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Basic Information

Catalog Number:
16619-1-AP

Size:
150ul , Concentration: 550 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG9916

GenBank Accession Number:
BC025246

GeneID (NCBI):
4199

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 1:500-1:2000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:20-1:200

Applications

Tested Applications:
IHC, IP, WB, ELISA

Cited Applications:
IF, IHC, WB

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 liver tissue, HeLa cells, 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, CO(2), 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

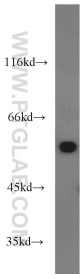
Storage

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

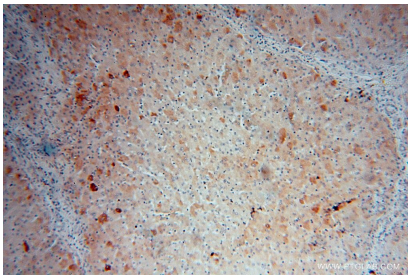
*** 20ul sizes contain 0.1% BSA

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

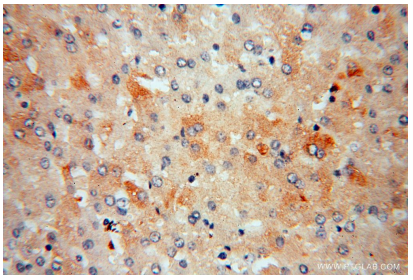
Selected Validation Data



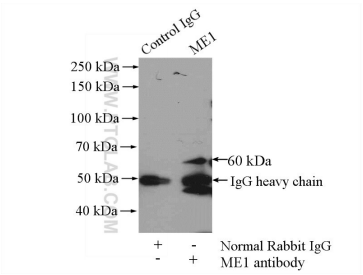
mouse liver tissue were subjected to SDS PAGE followed by western blot with 16619-1-AP (ME1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



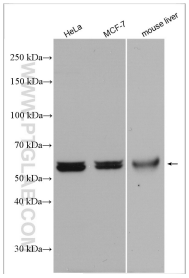
Immunohistochemical analysis of paraffin-embedded human liver using 16619-1-AP (ME1 antibody) at dilution of 1:100 (under 10x lens).



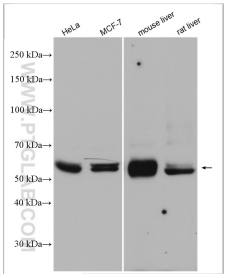
Immunohistochemical analysis of paraffin-embedded human liver using 16619-1-AP (ME1 antibody) at dilution of 1:100 (under 40x lens).



IP Result of anti-ME1 (IP:16619-1-AP, 4ug; Detection:16619-1-AP 1:500) with mouse liver tissue lysate 4000ug.



Various lysates were subjected to SDS PAGE followed by western blot with 16619-1-AP (ME1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



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