

Datasheet for 600-401-CS8**ME1 Antibody****Overview**

Description:	Anti-ME1 (RABBIT) Antibody - 600-401-CS8
Item No.:	600-401-CS8
Size:	100 µg
Applications:	ELISA, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	ME1, also known as NADP-ME, MES or HUMNDME, may play an important role as a housekeeping protein within the cell (1). ME1 is a 572 amino acid cytoplasmic protein that belongs to the malic enzyme family (2). It is expressed ubiquitously with highest expression in liver and white adipose tissue. ME1 functions as an NADP-dependent enzyme that generates NADPH for fatty acid biosynthesis (3). The activity of this enzyme, the reversible oxidative decarboxylation of malate, links the glycolytic and citric acid cycles (3,4). ME1 is regulated by both thyroid hormone levels and the amount of carbohydrates in the diet (5).
Synonyms:	ME1 Antibody, MES, HUMNDME, NADP-dependent malic enzyme, Malic enzyme 1, NADP-ME
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ME1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-ME1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 16 amino acid peptide near the N-terminus of human ME1.

Purity/Specificity:	Anti-ME1 antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. ME1 antibody is human, mouse and rat reactive. ME1 antibody is predicted not to cross-react with ME2.
Relevant Links:	• UniProtKB - P48163 • GeneID - 4199 • NCBI - NP_002386

Application Details

Tested Applications:	ELISA, IHC, WB
Application Note:	Anti-ME1 Antibody has been tested for use in ELISA, Western Blotting, and Immunohistochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 64 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:20,000
IHC:	5 µg/mL
WB:	1-2 µg/mL

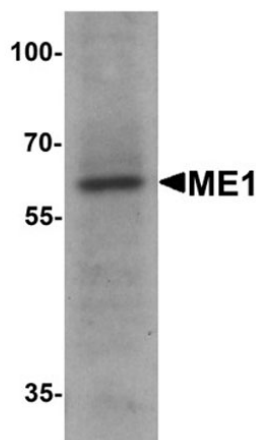
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images

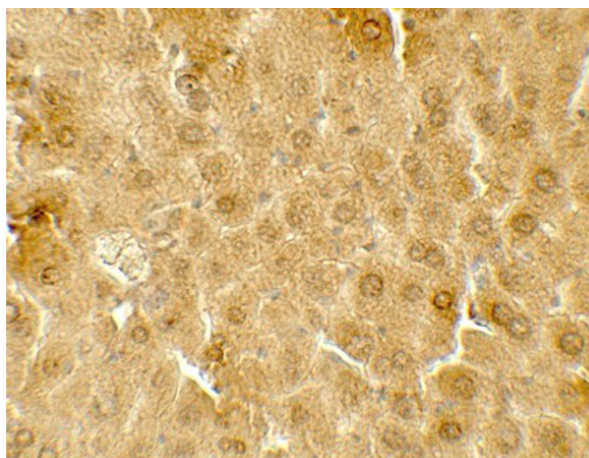


Western Blot

Western blot of ME1.

Load: 293 cell lysate.

Primary Antibody: ME1 antibody at 1 μ g/ml.



Immunohistochemistry

Immunohistochemistry of ME1.

Tissue: mouse liver tissue.

Primary Antibody: ME1 antibody at 5 μ g/mL.

Disclaimer

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