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ME1 Rabbit pAb

Catalog # AP97836

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P48163
Other Accession	P48163
Reactivity	Rat, Mouse
Predicted	Pig, Human, Rabbit, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	64150
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human NADP ME
Epitope Specificity	451-550/572
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the malic enzymes family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	ME1 is a cytosolic, NADP-dependent enzyme that generates NADPH for fatty acid biosynthesis. The activity of this enzyme, the reversible oxidative decarboxylation of malate, links the glycolytic and citric acid cycles. The regulation of expression for this gene is complex. Increased expression can result from elevated levels of thyroid hormones or by higher proportions of carbohydrates in the diet.

Additional Information

Gene ID	4199
Other Names	HUMNDME; MES; D9Ertd267e; Mdh-1; Mod-1; Mod1; MAOX_HUMAN; ME1; NADP-ME; Malic enzyme 1; 1.1.1.40; MAOX_MOUSE; MAOX_RAT; malic enzyme 1, NADP(+)-dependent, cytosolic; malate dehydrogenase (oxaloacetate-decarboxylating) (NADP(+)); NADP-dependent malic enzyme
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	ME1 (HGNC:6983)
Function	Catalyzes the oxidative decarboxylation of (S)-malate in the presence of NADP(+) and divalent metal ions, and decarboxylation of oxaloacetate.
Cellular Location	Cytoplasm.
Tissue Location	Expressed in all tissues tested including liver, placenta and white adipose tissue.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.