10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ME3 Recombinant Rabbit mAb

Catalog # AP100277

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q16798
Other Accession	Q16798
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Recombinant
Calculated MW	67068
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Background Descriptions	Malic enzyme catalyzes the oxidative decarboxylation of malate to pyruvate using either NAD+ or NADP+ as a cofactor. Mammalian tissues contain 3 distinct isoforms of malic enzyme: a cytosolic NADP(+)-dependent isoform, a mitochondrial NADP(+)-dependent isoform, and a mitochondrial NAD(+)-dependent isoform. This gene encodes a mitochondrial NADP(+)-dependent isoform. Multiple alternatively spliced transcript variants have been found for this gene, but the biological validity of some variants has not been determined. [provided by RefSeq, Jul 2008],

Additional Information

Gene ID	10873
Other Names	NADP-ME; 1700020C08Rik; B230207H15Rik; MAON_HUMAN; ME3; Malic enzyme 3; 1.1.1.40; malic enzyme 3, NADP(+)-dependent, mitochondrial; malate dehydrogenase (oxaloacetate-decarboxylating) (NADP(+)); NADP-dependent malic enzyme mitochondrial; NADP-dependent malic enzyme; mitochondrial
Dilution	IHC-P=1:50-200,IHC-F=1:50-200,WB=1:500-2000,IF=1:50-200,ELISA=1:5000-10000
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	ME3 (HGNC:6985)
Function	Catalyzes the oxidative decarboxylation of (S)-malate to pyruvate using

	NADP(+), and is able to reverse the reaction but only with significantly lower efficiency (PubMed:7818469). Can also catalyze the decarboxylation of oxaloacetate into pyruvate (By similarity).
Cellular Location	Mitochondrion matrix.
Tissue Location	Expressed predominantly in organs with a low- division rate

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