

ME3 Rabbit pAb

Catalog # AP100230

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q16798
Other Accession	Q16798
Host	Rabbit
Clonality	Polyclonal
Calculated MW	67068
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ME3
Epitope Specificity	1-100/604
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
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(+))
Dilution	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	ME3 (HGNC:6985)
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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'.