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# ME3 Rabbit pAb

Catalog # AP100230

## Product Information

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| **Application** | IHC-P, IHC-F, IF |
| **Primary Accession** | Q16798 |
| **Other Accession** | Q16798 |
| **Reactivity** | Human |
| **Predicted** | Rat, Mouse, Rabbit, Dog, Sheep |
| **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

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| **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

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| **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'.