

Rabbit anti-Human ME2 Polyclonal Antibody | anti-ME2 antibody

ME2 Antibody

CATALOG # AAA40779	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunofluorescence, Immunohistochemistry, Western Blot, ELISA
------------------------------	-----------------------	----------------------------	--

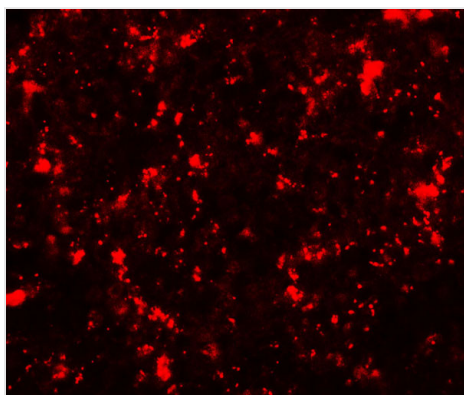
PRODUCT SYNONYMS

ME2; Polyclonal Antibody; ME2 Antibody; ODS1; NAD-dependent malic enzyme; mitochondrial; Malic enzyme 2; NAD-ME; malic enzyme 2; NAD(+)-dependent; anti-ME2 antibody

PRODUCT SPECIFICATIONS

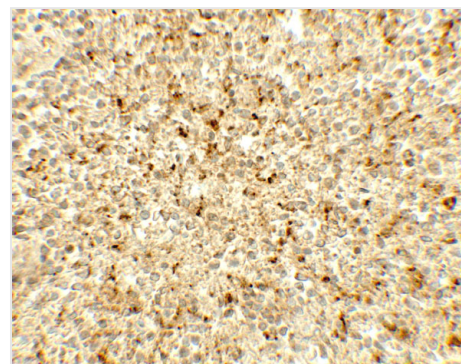
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	ME2 antibody is human specific. At least two isoforms of ME2 are known to exist; this antibody will detect both isoforms. ME2 antibody is predicted not to cross-react with ME1.
Purity/Purification	ME2 antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Sequence Length	584
Applicable Applications for anti-ME2 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot), ELISA
Conjugate	Unconjugated
Immunogen	ME2 antibody was raised against a 17 amino acid peptide near the center of human ME2.
Buffer	ME2 Antibody is supplied in PBS containing 0.02% sodium azide.
Preparation and Storage	ME2 antibody can be stored at 4 degree C for three months and -20 degree C, stable for up to one year.

IMAGES



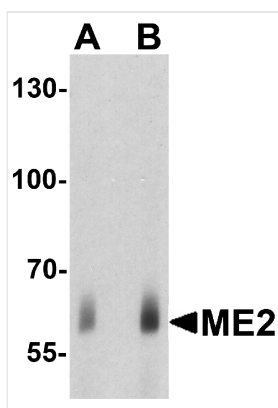
IF (Immunofluorescence)

Immunofluorescence of ME2 in human spleen tissue with ME2 antibody at 20 µg/mL.



IHC (Immunohistochemistry)

Immunohistochemistry of ME2 in human spleen tissue with ME2 antibody at 5 µg/mL.



WB (Western Blot)

Western blot analysis of ME2 in human spleen tissue lysate with ME2 antibody at (A) 1 and (B) 2 µg/ml.

ADDITIONAL INFORMATION

Related Product Information for anti-ME2 antibody

ME2 is a homotetrameric, mitochondrial NAD-dependent malic enzyme that catalyzes the oxidative decarboxylation of malate to pyruvate (1). It is related to malic enzyme 1 (ME1), a cytoplasmic NADP-dependent enzyme that generates NADPH for fatty acid biosynthesis (2). The expression of both malic enzymes is reciprocally regulated by p53; this regulation has been shown to modulate metabolism and senescence (3). Certain single-nucleotide polymorphism haplotypes of the ME2 gene have been shown to increase the risk for idiopathic generalized epilepsy (4).

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505145
NCBI GeneID	4200
NCBI Accession #	NP_002387
NCBI GenBank Nucleotide #	NM_002396.4
UniProt Accession #	P23368; Q9BWL6; Q9BYG1; Q9H4B2; B2R8J2
Molecular Weight	Predicted: 64 kDa Observed: 60 kDa
NCBI Official Full Name	NAD-dependent malic enzyme, mitochondrial isoform 1
NCBI Official Synonym Full Names	malic enzyme 2, NAD(+)-dependent, mitochondrial
NCBI Official Symbol	ME2
NCBI Official Synonym Symbols	ODS1
NCBI Protein Information	NAD-dependent malic enzyme, mitochondrial; NAD-ME; malate dehydrogenase; pyruvic-malic carboxylase
UniProt Protein Name	NAD-dependent malic enzyme, mitochondrial
UniProt Gene Name	ME2
UniProt Synonym Gene Names	NAD-ME
UniProt Entry Name	MAOM_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.