

Datasheet for ABIN6991980  
**anti-NAD-ME antibody (AA 340-390)**



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## Overview

Quantity:	0.1 mg
Target:	NAD-ME
Binding Specificity:	AA 340-390
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NAD-ME antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF)

## Product Details

Immunogen:	ME2 antibody was raised against a 17 amino acid peptide near the center of human ME2. The immunogen is located within amino acids 340 - 390 of ME2.
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.
Purification:	ME2 antibody is affinity chromatography purified via peptide column.

## Target Details

Target:	NAD-ME
Alternative Name:	ME2 ( <a href="#">NAD-ME Products</a> )

## Target Details

Background:	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).
Molecular Weight:	Predicted: 64 kDa  Observed: 60 kDa
Gene ID:	4200
NCBI Accession:	<a href="#">NP_002387</a>
UniProt:	<a href="#">P23368</a>
Pathways:	<a href="#">Production of Molecular Mediator of Immune Response</a>

## Application Details

Application Notes:	ME2 antibody can be used for detection of ME2 by Western blot at 1 - 2 µg/mL. Antibody can also be used for Immunohistochemistry at 5 µg/mL. For Immunofluorescence start at 20 µg/mL.  Antibody validated: Western Blot in human samples, Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	ME2 Antibody is supplied in PBS containing 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

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Storage:	-20 °C,4 °C
Storage Comment:	ME2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.