

# ME2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP12610b

#### **Product Information**

ApplicationIHC-P, WB, EPrimary AccessionP23368Other AccessionNP\_002387.1ReactivityHuman, Mouse

HostRabbitClonalityPolyclonalIsotypeRabbit IgGClone NamesRB32070Calculated MW65444Antigen Region527-556

## **Additional Information**

**Gene ID** 4200

Other Names NAD-dependent malic enzyme, mitochondrial, NAD-ME, Malic enzyme 2, ME2

Target/Specificity This ME2 antibody is generated from rabbits immunized with a KLH

conjugated synthetic peptide between 527-556 amino acids from the

C-terminal region of human ME2.

**Dilution** IHC-P~~1:100~500 WB~~1:1000 E~~Use at an assay dependent concentration.

**Format** Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

This antibody is purified through a protein A column, followed by peptide

affinity purification.

**Storage** Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions** ME2 Antibody (C-term) is for research use only and not for use in diagnostic

or therapeutic procedures.

## **Protein Information**

Name ME2

**Function** NAD-dependent mitochondrial malic enzyme that catalyzes the oxidative

decarboxylation of malate to pyruvate.

**Cellular Location** Mitochondrion matrix

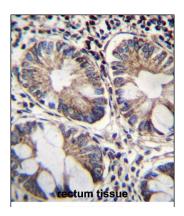
# **Background**

This gene encodes a mitochondrial NAD-dependent malic enzyme, a homotetrameric protein, that catalyzes the oxidative decarboxylation of malate to pyruvate. It had previously been weakly linked to a syndrome known as Friedreich ataxia that has since been shown to be the result of mutation in a completely different gene. Certain single-nucleotide polymorphism haplotypes of this gene have been shown to increase the risk for idiopathic generalized epilepsy. Alternatively spliced transcript variants encoding different isoforms found for this gene. [provided by RefSeq].

## References

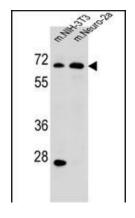
MacDonald, M.J., et al. Arch. Biochem. Biophys. 488(2):100-104(2009) French, D., et al. Blood 113(19):4512-4520(2009) Escamilla, M. Pharmacogenomics 8(7):691-695(2007) Chou, W.Y., et al. Biochem. Biophys. Res. Commun. 357(1):133-138(2007) Lenzen, K.P., et al. Epilepsia 46(10):1637-1641(2005)

# **Images**



ME2 Antibody (C-term) (Cat. #AP12610b)immunohistochemistry analysis in formalin fixed and paraffin embedded human rectum tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of ME2 Antibody (C-term) for immunohistochemistry.

Clinical relevance has not been evaluated.



ME2 Antibody (C-term) (Cat. #AP12610b) western blot analysis in mouse NIH-3T3, Neuro-2a cell line lysates (35ug/lane). This demonstrates the ME2 antibody detected the ME2 protein (arrow).

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