10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ME2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12610b

Product Information

Application	IHC-P, WB, E
Primary Accession	P23368
Other Accession	NP_002387.1
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32070
Calculated MW	65444
Antigen Region	527-556

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

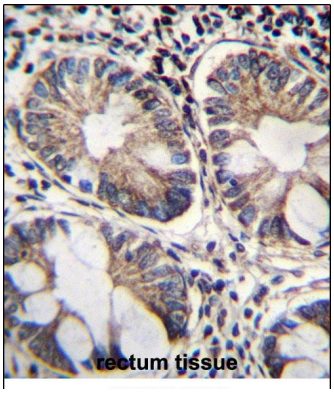
Background

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].

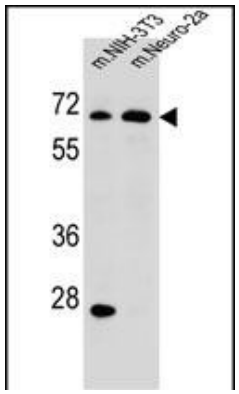
References

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'.