Product Name: MCAD Rabbit Polyclonal Antibody
Catalog #: APRab13701

Summary

Production Name	MCAD Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IHC-P
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	ACADM
Alternative Names	ACADM; Medium-chain specific acyl-CoA dehydrogenase, mitochondrial; MCAD
Gene ID	34.0
SwissProt ID	P11310.The antiserum was produced against synthesized peptide derived from human MCAD. AA range:134-183

Application

Dilution Ratio	WB 1:500-2000, IHC-P 1:50-300
Molecular Weight	46kDa

Background

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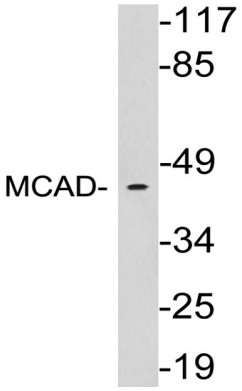
This gene encodes the medium-chain specific (C4 to C12 straight chain) acyl-Coenzyme A dehydrogenase. The homotetramer enzyme catalyzes the initial step of the mitochondrial fatty acid beta-oxidation pathway. Defects in this gene cause medium-chain acyl-CoA dehydrogenase deficiency, a disease characterized by hepatic dysfunction, fasting hypoglycemia, and encephalopathy, which can result in infantile death. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008],catalytic activity:Acyl-CoA + acceptor = 2,3-dehydroacyl-CoA + reduced acceptor.,cofactor:FAD.,disease:Defects in ACADM are the cause of medium-chain acyl-CoA dehydrogenase deficiency (MCAD deficiency) [MIM:201450]. It is an autosomal recessive disease which causes fasting hypoglycemia, hepatic dysfunction, and encephalopathy, often resulting in death in infancy. The disease frequency is one in 13000.,function:This enzyme is specific for acyl chain lengths of 4 to 16.,miscellaneous:A number of straight-chain acyl-CoA dehydrogenases of different substrate specificities are present in mammalian tissues.,miscellaneous:Utilizes the electron transfer flavoprotein (ETF) as electron acceptor that transfers the electrons to the main mitochondrial respiratory chain via ETF-ubiquinone oxidoreductase (ETF dehydrogenase).,pathway:Lipid metabolism; mitochondrial fatty acid beta-oxidation.,similarity:Belongs to the acyl-CoA dehydrogenase family.,subunit:Homotetramer. Interacts with the heterodimeric electron transfer flavoprotein ETF.,

Research Area

Fatty acid metabolism;Valine; leucine and isoleucine degradation;beta-Alanine metabolism;Propanoate metabolism;PPAR;

Image Data



Western blot analysis of lysates from HeLa cells, using MCAD antibody.

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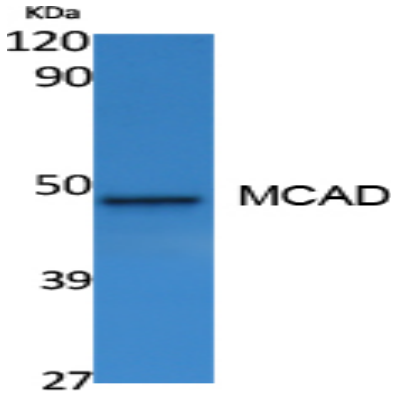

Western Blot analysis of extracts from A549 cells, using MCAD Polyclonal Antibody.. Secondary antibody was diluted at 1:20000

Note

For research use only.