



MCAD Polyclonal Antibody

Catalog No	YP-Ab-02846
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC
Gene Name	ACADM
Immunogen	The antiserum was produced against synthesized peptide derived from human MCAD. AA range:134-183
Specificity	MCAD Polyclonal Antibody detects endogenous levels of MCAD protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000;IHC-p 1:50-300
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	ACAD;ACAD 1;ACAD1;EC:1.3.8.7;MCAD;ACADM;Medium-chain specific acyl-CoA dehydrogenase mitochondrial;Medium-chain specific acyl-CoA dehydrogenase;mitochondrial
Observed Band	46kD
Calculated Molecular Weight	46kD
Cell Pathway	Mitochondrion matrix .
Tissue Specificity	Brain,Cajal-Retzius cell,Cerebellum,Colon,Liver,
Function	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:

Background

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],

matters needing attention

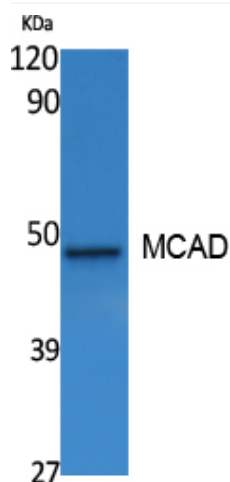
Avoid repeated freezing and thawing!

Usage suggestions

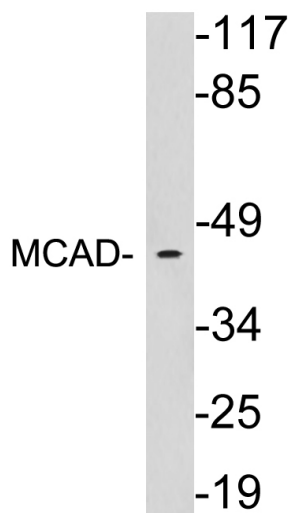
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



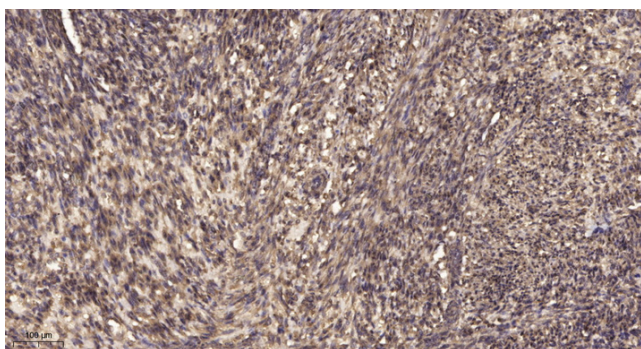
Products Images



Western Blot analysis of extracts from A549 cells, using MCAD Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



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



Immunohistochemical analysis of paraffin-embedded human uterus. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).