

# MCAD Polyclonal Antibody

Catalog # AP73207

## Product Information

---

Application	WB
Primary Accession	<a href="#">P11310</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	46588

## Additional Information

---

Gene ID	34
Other Names	ACADM; Medium-chain specific acyl-CoA dehydrogenase, mitochondrial; MCAD
Dilution	WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

## Protein Information

---

Name	ACADM ( <a href="#">HGNC:89</a> )
Function	Medium-chain specific acyl-CoA dehydrogenase is one of the acyl-CoA dehydrogenases that catalyze the first step of mitochondrial fatty acid beta-oxidation, an aerobic process breaking down fatty acids into acetyl-CoA and allowing the production of energy from fats (PubMed: <a href="#">1970566</a> , PubMed: <a href="#">21237683</a> , PubMed: <a href="#">2251268</a> , PubMed: <a href="#">8823175</a> ). The first step of fatty acid beta-oxidation consists in the removal of one hydrogen from C-2 and C-3 of the straight-chain fatty acyl-CoA thioester, resulting in the formation of trans-2-enoyl-CoA (PubMed: <a href="#">2251268</a> ). Electron transfer flavoprotein (ETF) is the electron acceptor that transfers electrons to the main mitochondrial respiratory chain via ETF-ubiquinone oxidoreductase (ETF dehydrogenase) (PubMed: <a href="#">15159392</a> , PubMed: <a href="#">25416781</a> ). Among the different mitochondrial acyl-CoA dehydrogenases, medium-chain specific acyl-CoA dehydrogenase acts specifically on acyl-CoAs with saturated 6 to 12 carbons long primary chains (PubMed: <a href="#">1970566</a> , PubMed: <a href="#">21237683</a> , PubMed: <a href="#">2251268</a> , PubMed: <a href="#">8823175</a> ).
Cellular Location	Mitochondrion matrix

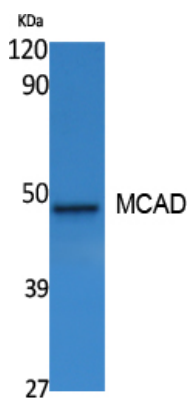
## Background

---

Acyl-CoA dehydrogenase specific for acyl chain lengths of 4 to 16 that catalyzes the initial step of fatty acid beta- oxidation. Utilizes the electron transfer flavoprotein (ETF) as an electron acceptor to transfer electrons to the main mitochondrial respiratory chain via ETF-ubiquinone oxidoreductase (ETF dehydrogenase).

## Images

---



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

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