

# Anti-MCAD / ACADM Antibody

Rabbit Anti Human Polyclonal Antibody  
Catalog # ALS18163

## Product Information

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<b>Application</b>	WB, IHC-P
<b>Primary Accession</b>	<a href="#">P11310</a>
<b>Predicted</b>	Human, Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG
<b>Calculated MW</b>	46588

## Additional Information

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<b>Gene ID</b>	34
<b>Alias Symbol</b>	ACADM
<b>Other Names</b>	ACADM, ACAD1, MCAD, MCADH
<b>Target/Specificity</b>	Human MCAD / ACADM
<b>Reconstitution &amp; Storage</b>	Affinity purified
<b>Precautions</b>	Anti-MCAD / ACADM Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	ACADM ( <a href="#">HGNC:89</a> )
<b>Function</b>	Medium-chain specific acyl-CoA dehydrogenase is one of the acyl-CoA dehydrogenases that catalyze the first step of mitochondrial fatty acid beta-oxidation (FAO), 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 FAO consists in the proR-proR stereospecific alpha, beta-dehydrogenation of fatty acyl-CoA thioesters using the electron transfer flavoprotein (ETF) as their physiologic electron acceptor, resulting in the formation of trans-2-enoyl-CoA ((2E)-enoyl-CoA) (PubMed: <a href="#">2251268</a> ). 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 has preference for fatty acyl-CoAs with saturated 6 to 12 carbons long primary chains, making it but can also catalyze longer chains such as C14 and C16 (PubMed: <a href="#">1970566</a> , PubMed: <a href="#">21237683</a> ,

PubMed:[2251268](#), PubMed:[8823175](#)).

**Cellular Location**

Mitochondrion matrix

**Tissue Location**

Expressed ubiquitously with highest levels in heart and muscle.

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