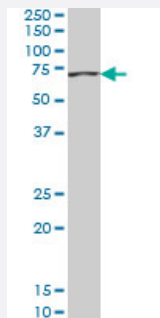


# ACADVL monoclonal antibody (M01), clone 5D3

Catalog # H00000037-M01

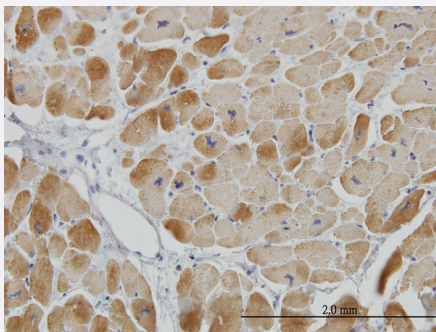
Size 100 ug

## Applications



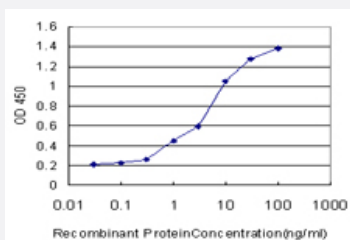
### Western Blot (Cell lysate)

ACADVL monoclonal antibody (M01), clone 5D3 Western Blot analysis of ACADVL expression in HeLa S3 NE ( Cat # L013V3 ).



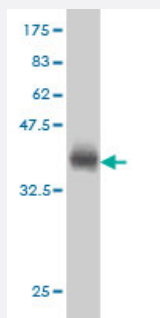
### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to ACADVL on formalin-fixed paraffin-embedded human heart. [antibody concentration 3 ug/ml]



### Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ACADVL is approximately 0.03ng/ml as a capture antibody.



Western Blot detection against Immunogen (35.64 KDa) .

## Specification

|                                      |   |
|--------------------------------------|---|
| <b>Product Description</b>           | Mouse monoclonal antibody raised against a partial recombinant ACADVL.  |
| <b>Immunogen</b>                     | ACADVL (NP_000009, 345 a.a. ~ 434 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. |
| <b>Sequence</b>                      | AAALAGTMRGIIAKAVDHA TNRTQFGEKIHNFGLIQEKLARMVMLQYVTESMAYMV SANMDQGATDFQIEAAISKIFGSEA AWKVTDECI                       |
| <b>Host</b>                          | Mouse   |
| <b>Reactivity</b>                    | Human   |
| <b>Interspecies Antigen Sequence</b> | Mouse (86); Rat (89)  |
| <b>Isotype</b>                       | IgG2b Kappa   |
| <b>Quality Control Testing</b>       | Antibody Reactive Against Recombinant Protein.<br>Western Blot detection against Immunogen (35.64 KDa) .            |
| <b>Storage Buffer</b>                | In 1x PBS, pH 7.4   |
| <b>Storage Instruction</b>           | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.  |

## Applications

- Western Blot (Cell lysate)

ACADVL monoclonal antibody (M01), clone 5D3 Western Blot analysis of ACADVL expression in Hela S3 NE ( Cat # L013V3 ).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to ACADVL on formalin-fixed paraffin-embedded human heart. [antibody concentration 3 ug/ml]

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged ACADVL is approximately 0.03ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

## Gene Info — ACADVL

Entrez GeneID [37](#)

GeneBank Accession# [NM\\_000018](#)

Protein Accession# [NP\\_000009](#)

Gene Name ACADVL

Gene Alias ACAD6, LCACD, VLCAD

Gene Description acyl-Coenzyme A dehydrogenase, very long chain

Omim ID [201475 609575](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** The protein encoded by this gene is targeted to the inner mitochondrial membrane where it catalyzes the first step of the mitochondrial fatty acid beta-oxidation pathway. This acyl-Coenzyme A dehydrogenase is specific to long-chain and very-long-chain fatty acids. A deficiency in this gene product reduces myocardial fatty acid beta-oxidation and is associated with cardiomyopathy. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq]

Other Designations -

## Publication Reference

- [ACAD9, a complex I assembly factor with a moonlighting function in fatty acid oxidation deficiencies.](#)

Nouws J, Te Brinke H, Nijtmans LG, Houten SM.

Human Molecular Genetics 2014 Mar; 23(5):1311.

Application: WB-Tr, Human, Fibroblast cells

- [Mild mitochondrial uncoupling does not affect mitochondrial biogenesis but downregulates pyruvate carboxylase in adipocytes: role for triglyceride content reduction.](#)

De Pauw A, Demine S, Tejerina S, Dieu M, Delaive E, Kel A, Renard P, Raes M, Arnould T.

American Journal of Physiology. Endocrinology and Metabolism 2012 May; 302(9):E1123.

Application: WB, Mouse, 3T3-L1 preadipocytes

## Pathway

- [Fatty acid metabolism](#)
- [Metabolic pathways](#)