

For Research Use Only

# ACADM Monoclonal antibody

Catalog Number: 67742-1-Ig **3 Publications**



## Basic Information

<b>Catalog Number:</b> 67742-1-Ig	<b>GenBank Accession Number:</b> BC005377	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by Nanodrop and 449 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 34	<b>CloneNo.:</b> 1A11G6
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P11310	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IHC 1:250-1:1000 IF-P 1:200-1:800
<b>Isotype:</b> IgG1	<b>Full Name:</b> acyl-Coenzyme A dehydrogenase, C-4 to C-12 straight chain	
<b>Immunogen Catalog Number:</b> AG30620	<b>Calculated MW:</b> 421 aa, 47 kDa	
	<b>Observed MW:</b> 42 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF-P, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB, IF	<b>WB :</b> PC-3 cells, HSC-T6 cells, rat liver tissue, HeLa cells, HEK-293 cells, HepG2 cells
<b>Species Specificity:</b> human, rat, pig	<b>IHC :</b> human liver tissue, human heart tissue
<b>Cited Species:</b> human, mouse, rat	<b>IF-P :</b> human liver cancer tissue,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

ACADM, also named as MCAD, belongs to the acyl-CoA dehydrogenase family. This enzyme is specific for acyl chain lengths of 4 to 16. It catalyzes the reaction: Acyl-CoA + acceptor = 2,3-dehydroacyl-CoA + reduced acceptor. Defects in ACADM are the cause of medium-chain acyl-CoA dehydrogenase deficiency (MCAD deficiency). This protein can exist as a dimer(PMID:8962055). This antibody is specific to ACADM.

## Notable Publications

Author	Pubmed ID	Journal	Application
Nan Xiong	39716927	Adv Sci (Weinh)	WB
Qihan Luo	39303509	Phytomedicine	WB,IF
Agata Wrońska	38474282	Int J Mol Sci	WB

## Storage

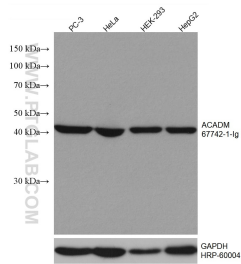
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

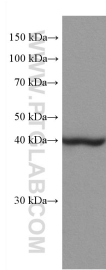
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

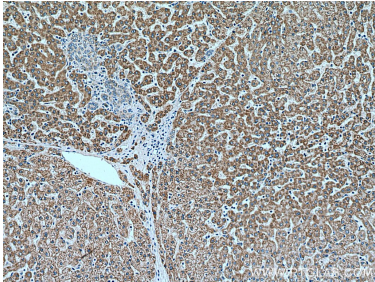
Selected Validation Data



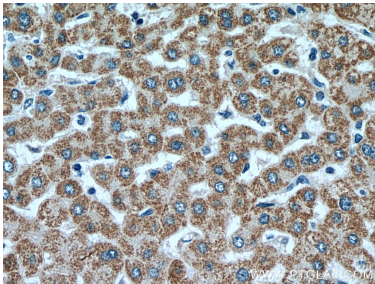
Various lysates were subjected to SDS PAGE followed by western blot with 67742-1-Ig (ACADM antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



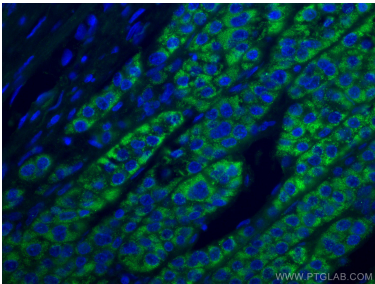
rat liver tissue were subjected to SDS PAGE followed by western blot with 67742-1-Ig (ACADM antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



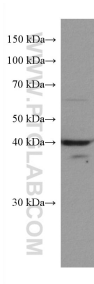
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 67742-1-Ig (ACADM antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 67742-1-Ig (ACADM antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human liver cancer tissue using ACADM antibody (67742-1-Ig, Clone: 1A11G6) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



HSC-T6 cells were subjected to SDS PAGE followed by western blot with 67742-1-Ig (ACADM antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.