

For Research Use Only

# ACADM Monoclonal antibody

Catalog Number: 67742-1-Ig **1 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> 1000 µg/ml	<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 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

### Tested Applications:

IF-P, IHC, WB, ELISA

### Cited Applications:

WB

### Species Specificity:

Human, rat, pig

### Cited Species:

rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB** : PC-3 cells, HSC-T6 cells, rat liver tissue, HeLa cells, HEK-293 cells, HepG2 cells

**IHC** : human liver tissue, human heart tissue

**IF** : human liver cancer tissue,

## 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
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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

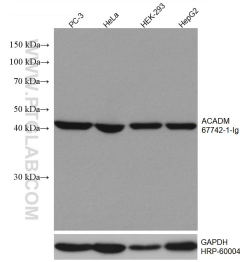
T: 4006900926

E: Proteintech-CN@ptglab.com

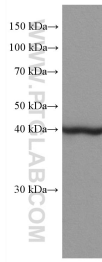
W: ptgcn.com

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

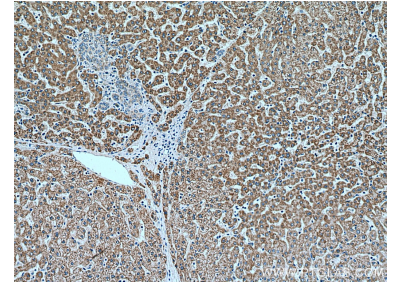
## Selected Validation Data



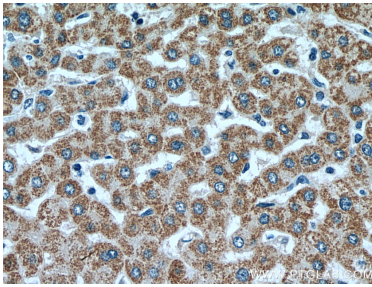
Various lysates were subjected to SDS PAGE followed by western blot with 67742-1-Ig (ACADM antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



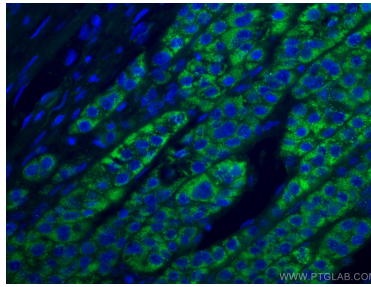
rat liver tissue were subjected to SDS PAGE followed by western blot with 67742-1-Ig (ACADM antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



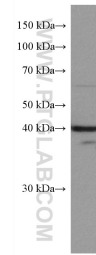
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 67742-1-Ig (ACADM antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.