

For Research Use Only

# ACADVL Polyclonal antibody

Catalog Number: 14527-1-AP

Featured Product

15 Publications



## Basic Information

### Catalog Number:

14527-1-AP

### Size:

150ul, Concentration: 350 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG6016

### GenBank Accession Number:

BC012912

### GeneID (NCBI):

37

### UNIPROT ID:

P49748

### Full Name:

acyl-Coenzyme A dehydrogenase, very long chain

### Calculated MW:

70 kDa

### Observed MW:

66-73 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:100-1:400

## Applications

### Tested Applications:

WB, IHC, ELISA

### Cited Applications:

WB, IHC, IP, CoIP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, 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: mouse liver tissue, L02 cells, HeLa cells, rat liver tissue

IHC: human liver cancer tissue,

## Background Information

Very long-chain acyl-CoA dehydrogenase (VLCAD) is one of four flavoproteins which catalyze the initial step of the mitochondrial  $\beta$ -oxidation spiral. It belongs to the acyl-CoA dehydrogenase family and is a homodimer of a 71-kDa polypeptide which contains 2 mol of FAD/mol of enzyme. The molecular mass of the non-denatured trypsinized VLCAD is 98 kDa, by gel filtration chromatography, indicating that it is a homodimer of the 48 kDa (tryptic digest) polypeptide (PMID:9461620). Defects in ACADVL are the cause of acyl-CoA dehydrogenase very long chain deficiency (ACADVL). It has 2 isoforms (70 kDa and 68 kDa) produced by alternative splicing and a transit peptide. This antibody is specific to ACADVL.

## Notable Publications

Author	Pubmed ID	Journal	Application
De Huang	25242319	Cell Rep	WB
Qian Sun	27634671	Biochim Biophys Acta	WB
Yiyi Ma	36425583	Front Pharmacol	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

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

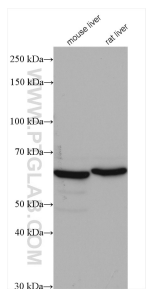
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

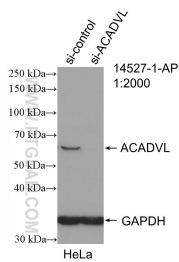
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

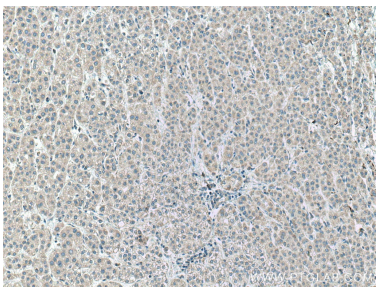
## Selected Validation Data



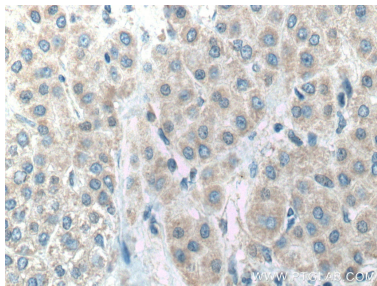
Various lysates were subjected to SDS PAGE followed by western blot with 14527-1-AP (ACADVL antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



WB result of ACADVL antibody (14527-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ACADVL transfected HeLa cells.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 14527-1-AP (ACADVL antibody) at dilution of 1:400 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 14527-1-AP (ACADVL antibody) at dilution of 1:400 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).