

ACADVL Polyclonal antibody

Catalog Number: 14527-1-AP

Featured Product

9 Publications

Basic Information

Catalog Number: 14527-1-AP	GenBank Accession Number: BC012912	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 350 µg/ml by Nanodrop;	GeneID (NCBI): 37	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:100-1:400
Source: Rabbit	Full Name: acyl-Coenzyme A dehydrogenase, very long chain	
Isotype: IgG	Calculated MW: 70 kDa	
Immunogen Catalog Number: AG6016	Observed MW: 66-73 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls:
Cited Applications: IHC, WB	WB : mouse liver tissue, LO2 cells, HeLa cells, rat liver tissue
Species Specificity: human, mouse, rat	IHC : human liver cancer tissue,
Cited Species: human, rat, mouse	

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

Background Information

Very long-chain acyl-CoA dehydrogenase (VLCAD) is one of four flavoproteins which catalyze the initial step of the mitochondrial β -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 nondenatured 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.

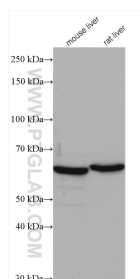
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

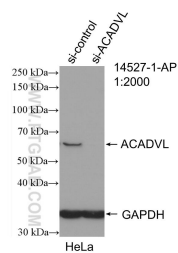
For technical support and original validation data for this product please contact:
 T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
 E: proteintech@ptglab.com
 W: ptglab.com

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

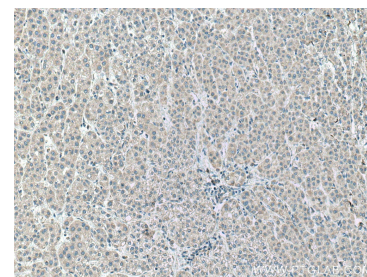
Selected Validation Data



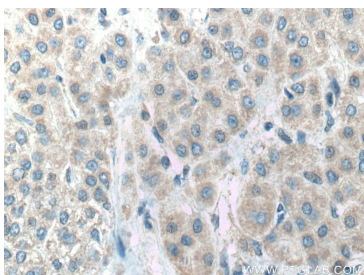
Various lysates were subjected to SDS PAGE followed by western blot with 14527-1-AP (ACADVL antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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).