For Research Use Only

ACADVL Polyclonal antibody

Catalog Number:14527-1-AP Featured Product 18 Publications

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Basic Information

Catalog Number:
14527-1-AP

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
IF/ICC: 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Cited Applications:
WB, IHC, IF, 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,

IF/ICC : A549 cells,

Background Information

Very long-chain acyl-CoA dehydrogenase (VLCAD) is one of four flavoproteins which catalyze the initial step of the mitochondrial b-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 (ACADVLD). It has 2 isoforms(70 kDa and 68 kDa) produced by alternative splicing and a transit peptide. This antibody is speicifc to ACADVL.

Notable Publications

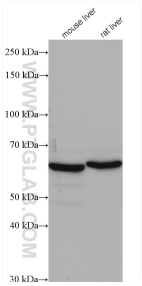
Author	Pubmed ID	Journal	Application
De Huang	25242319	Cell Rep	WB
Qian Sun	27634671	Biochim Biophys Acta	WB
Yiyi Ma	36425583	Front Pharmacol	WB

Storage

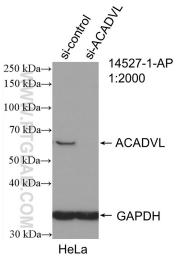
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

Selected Validation Data

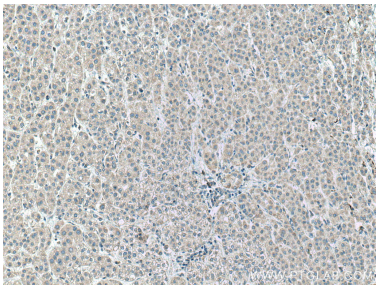


Various lysates were subjected to SDS PAGE followed by western blot with 14527-1-AP (ACADVL antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.

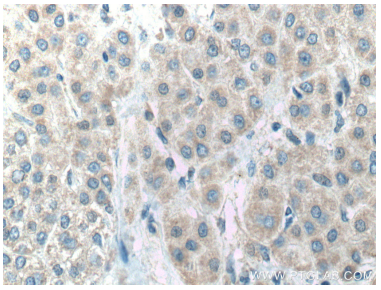


WB result of ACADVL antibody (14527-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ACADVL transfected HeLa cells.

Immunofluorescent analysis of (-20°C Methanol) fixed A549 cells using ACADVL antibody (14527-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



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).