

For Research Use Only

ACADL Polyclonal antibody

Catalog Number: 17442-1-AP

6 Publications



Basic Information

Catalog Number:

17442-1-AP

Size:

150ul, Concentration: 300 ug/ml by Nanodrop and 213 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG11530

GenBank Accession Number:

BC039063

GeneID (NCBI):

33

UNIPROT ID:

P28330

Full Name:

acyl-Coenzyme A dehydrogenase, long chain

Calculated MW:

430 aa, 48 kDa

Observed MW:

45-48 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:6000

IHC 1:100-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC

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 kidney tissue, HepG2 cells, rat kidney tissue, HeLa cells, HEK-293 cells, NIH/3T3 cells

IHC: human liver cancer tissue, human liver tissue

Background Information

ACADL(Long-chain specific acyl-CoA dehydrogenase, mitochondrial) is also named as LCAD and belongs to the acyl-CoA dehydrogenase family. It catalyzes the first reaction of the mitochondrial β -oxidation of fatty acids and is synthesized in the cytosol as a precursor that is larger than its mature form. The size difference between the precursor and mature rat LCAD has been estimated to be 3 kDa on the basis of SDS-PAGE(PMID:1774065). Defects in ACADL are a cause of acyl-CoA dehydrogenase very long-chain deficiency (ACADVL).

Notable Publications

Author	Pubmed ID	Journal	Application
Ya-Kun Zhang	28878358	Nat Commun	WB
Xinhui Liu	36313325	Front Pharmacol	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

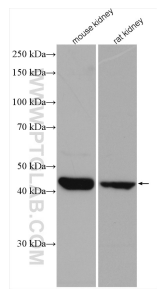
For technical support and original validation data for this product please contact:

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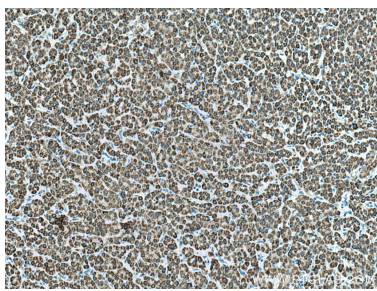
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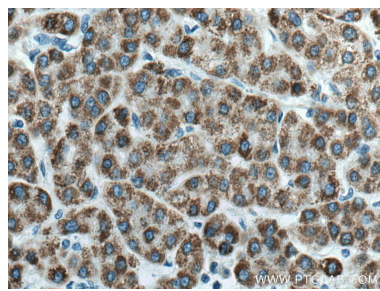
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 17442-1-AP (ACADL antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 17442-1-AP (ACADL 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 cancer tissue slide using 17442-1-AP (ACADL antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).