For Research Use Only

ACADL Polyclonal antibody

Catalog Number:17442-1-AP 5 Publications

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Basic Information

Catalog Number:
17442-1-AP

Size:
300 μg/ml

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:
IHC, WB, ELISA

Cited Applications:
WB

Species Specificity:
human, mouse, rat

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

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 from. 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 (ACADVLD).

Notable Publications

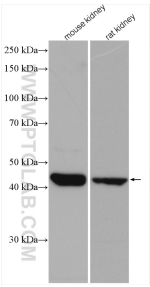
Author	Pubmed ID	Journal	Application
Ya-Kun Zhang	28878358	Nat Commun	WB
Xinhui Liu	36313325	Front Pharmacol	WB
Yiyi Ma	36425583	Front Pharmacol	WB

Storage

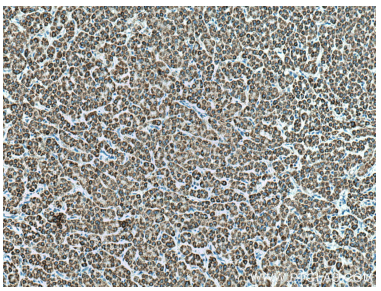
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

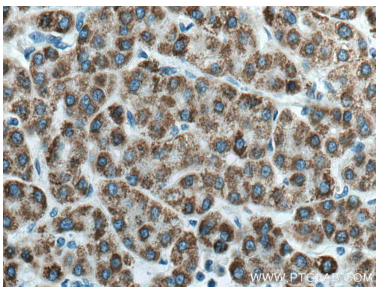
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 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).