

ACSL5 Polyclonal antibody

Catalog Number: 15708-1-AP

19 Publications

Basic Information

Catalog Number:

15708-1-AP

Size:

350 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG8258

GenBank Accession Number:

BC007985

GeneID (NCBI):

51703

UNIPROT ID:

Q9ULC5

Full Name:

acyl-CoA synthetase long-chain family member 5

Calculated MW:

76 kDa

Observed MW:

66-70 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IP, ELISA

Cited Applications:

WB, IP

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, rat liver tissue

IP : mouse brain tissue,

IHC : human colon cancer tissue,

Background Information

Acyl-CoA synthetase 5, a member of the ACSL gene family that catalyzes the activation of long-chain fatty acids for lipid biosynthesis, is the only ACSL isoform that is both, located on mitochondria and functionally involved in enterocyte apoptosis. ACSL5 could play a role in promoting fatty acid-induced lipopoptosis in hepatocytes as important mechanism in fatty liver-related disorders (PMID:20470896). ACSL5 is most abundant in liver, brown adipose tissue, and intestine and is located on both the mitochondrial membrane and endoplasmic reticulum (PMID:20798351). It has 3 isoforms produced by alternative splicing.

Notable Publications

Author	Pubmed ID	Journal	Application
He Li	36281450	iScience	WB, IP
Terytty Yang Li	29765047	Nat Commun	WB
Yuan Qu	30463708	J Surg Res	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

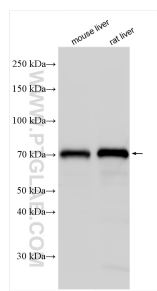
For technical support and original validation data for this product please contact:

T: 4006900926

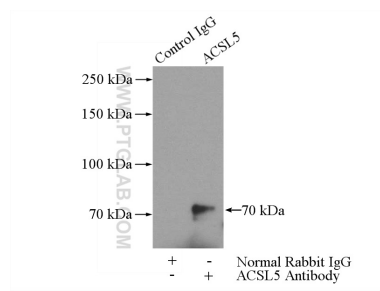
E: Proteintech-CN@ptglab.comW: ptgcn.com

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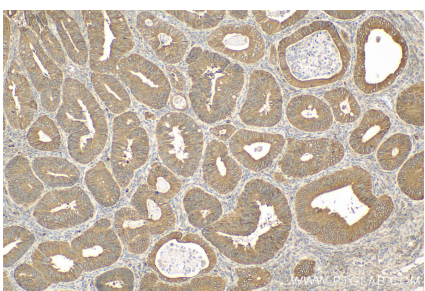
Selected Validation Data



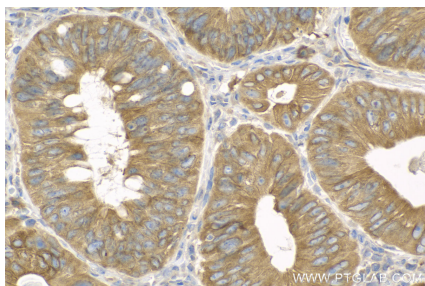
Various lysates were subjected to SDS PAGE followed by western blot with 15708-1-AP (ACSL5 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-ACSL5 (IP:15708-1-AP, 4ug; Detection:15708-1-AP 1:600) with mouse brain tissue lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded Colorectal cancer slide using 15708-1-AP (ACSL5 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded Colorectal cancer slide using 15708-1-AP (ACSL5 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).