

For Research Use Only

ACSL4/FACL4 Recombinant antibody

Catalog Number: 81196-1-RR

Featured Product

5 Publications



Basic Information

Catalog Number:

81196-1-RR

Size:

100ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG18085

GenBank Accession Number:

BC034959

GeneID (NCBI):

2182

UNIPROT ID:

O60488

Full Name:

acyl-CoA synthetase long-chain family member 4

Calculated MW:

711 aa, 79 kDa

Observed MW:

70 kDa, 75 kDa

Purification Method:

Protein A purification

CloneNo.:

3I9

Recommended Dilutions:

WB 1:5000-1:50000

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, 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 : HeLa cells, HepG2 cells, L02 cells, U-87 MG cells, HT-29 cells, NIH/3T3 cells, HSC-T6 cells

IP : HeLa cells,

IHC : human liver cancer tissue, human stomach cancer tissue, rat brain tissue

Background Information

Acyl-CoA synthetase long-chain family member 4 (Acsl4), an important enzyme involved in lipid metabolism, participates in ferroptosis by converting free AA into arachidonoyl-CoA to generate lipid hydroperoxides. Recent studies revealed that ACSL4 is involved in biological responses including inflammation, steroidogenesis, cell death, female fertility, and cancer. Acsl4 has two isoforms: 79 kDa and 75 kDa. ACSL4 also can be detected in 70 kDa (PMID:35326233).

Notable Publications

Author	Pubmed ID	Journal	Application
Pin Fang	39368783	Eur J Pharm Sci	WB
Zepeng Li	39115910	Nanomedicine (Lond)	WB
Feifan Zhang	38347435	BMC Cancer	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

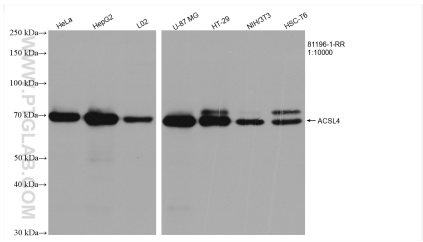
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

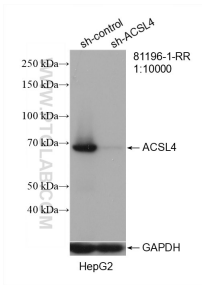
E: proteintech@ptglab.com
W: ptglab.com

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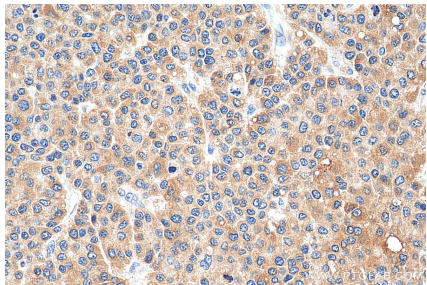
Selected Validation Data



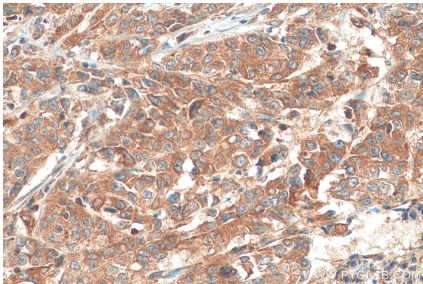
Various lysates were subjected to SDS PAGE followed by western blot with 81196-1-RR (ACSL4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



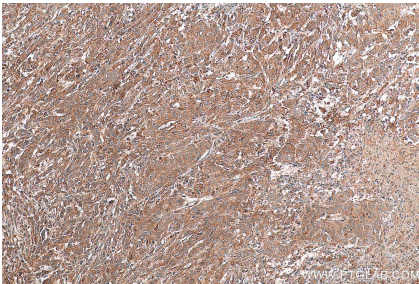
WB result of ACSL4 antibody (81196-1-RR; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ACSL4 transfected HepG2 cells.



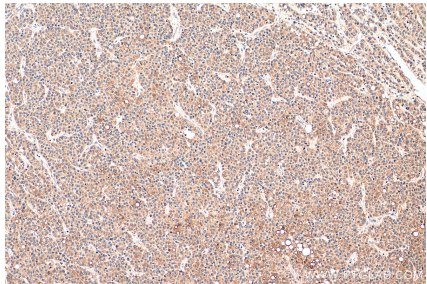
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 81196-1-RR (ACSL4 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



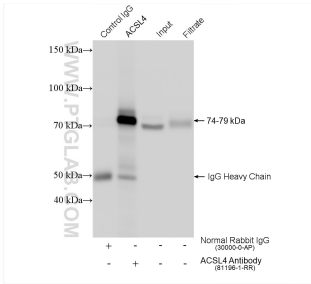
Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 81196-1-RR (ACSL4 antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



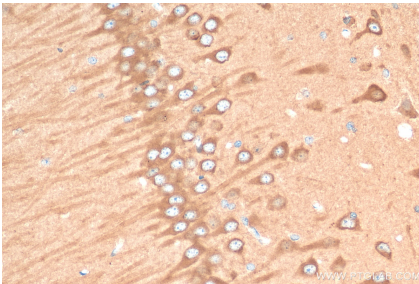
Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 81196-1-RR (ACSL4 antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



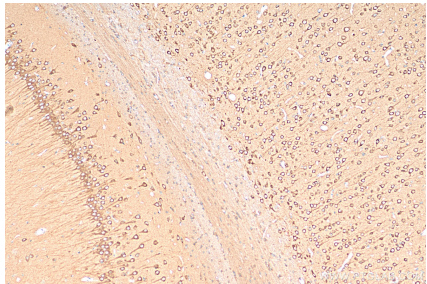
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 81196-1-RR (ACSL4 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-ACSL4/FACL4 (IP:81196-1-RR, 4ug; Detection:81196-1-RR 1:3000) with HeLa cells lysate 1560 ug.



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 81196-1-RR (ACSL4 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 81196-1-RR (ACSL4 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).