

For Research Use Only

ACSL4/FACL4 Recombinant antibody



Catalog Number: 81196-1-RR

Featured Product

2 Publications

Basic Information

Catalog Number: 81196-1-RR	GenBank Accession Number: BC034959	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 2182	CloneNo.: 319
Source: Rabbit	Full Name: acyl-CoA synthetase long-chain family member 4	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
Isotype: IgG	Calculated MW: 711 aa, 79 kDa	
Immunogen Catalog Number: AG18085	Observed MW: 70 kDa, 75 kDa	

Applications

Tested Applications:
IHC, IP, WB, ELISA

Cited Applications:
IHC, WB

Species Specificity:
Human, Mouse, Rat

Cited Species:
human, 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: 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
Weijing Lai	37457659	MedComm (2020)	IHC,WB
Shi-Bin Ding	37025486	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

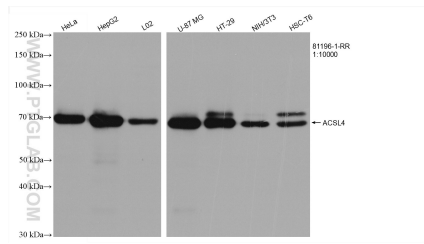
For technical support and original validation data for this product please contact:

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

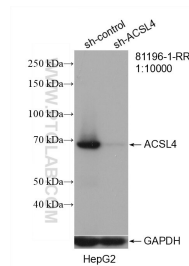
E: proteintech@ptglab.com
W: ptglab.com

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

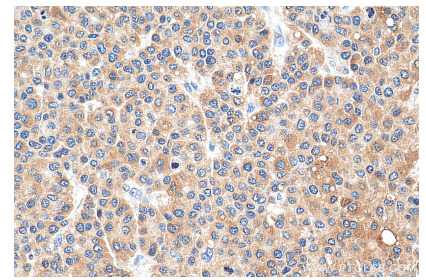
Selected Validation Data



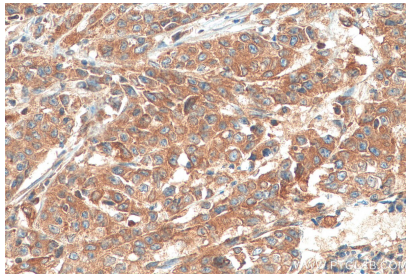
Various lysates were subjected to SDS PAGE followed by western blot with 81196-1-RR (ACSL4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



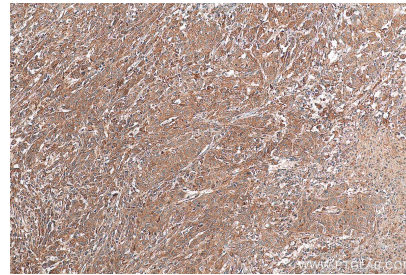
WB result of ACSL4 antibody (81196-1-RR; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ACSL4 transfected HepG2 cells.



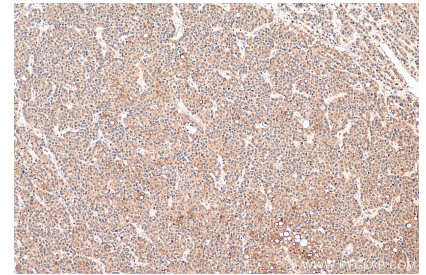
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 81196-1-RR (ACSL4 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



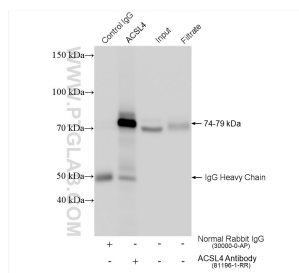
Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 81196-1-RR (ACSL4 antibody) at dilution of 1:600 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



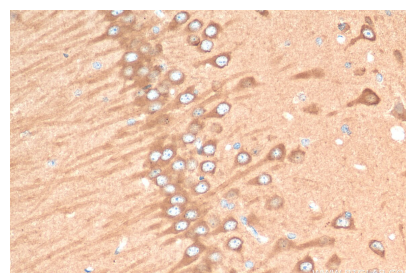
Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 81196-1-RR (ACSL4 antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



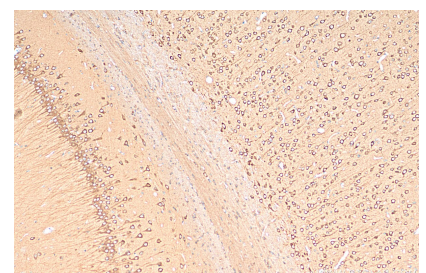
Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 81196-1-RR (ACSL4 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-ACSL4(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).