

For Research Use Only

ACSL4/FACL4 Polyclonal antibody

Catalog Number: 22401-1-AP

Featured Product

230 Publications



Basic Information

Catalog Number:

22401-1-AP

Size:

150ul, Concentration: 750 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:

79 kDa, 74 kDa

Purification Method:

Antigen affinity purification

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, IF, IP, CoIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, pig, duck

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 : BV-2 cells, HEK-293 cells, HeLa cells, HepG2 cells, COLO 320 cells, NIH/3T3 cells

IP : HEK-293 cells,

IHC : mouse 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
Yanan Zhao	36166594	J Agric Food Chem	WB
Mahmood Hassan Dalhat	36149760	Clin Transl Med	WB
Shiao Tong	36156371	Transl Oncol	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

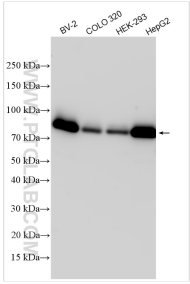
For technical support and original validation data for this product please contact:

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

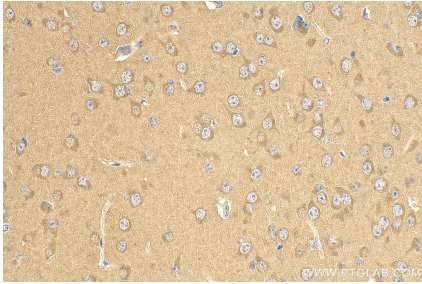
E: proteintech@ptglab.com
W: ptglab.com

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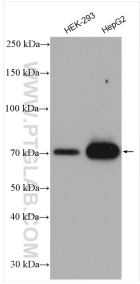
Selected Validation Data



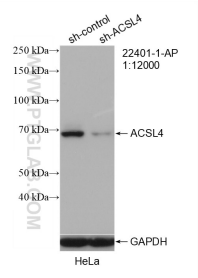
Various lysates were subjected to SDS PAGE followed by western blot with 22401-1-AP (ACSL4/FACL4 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



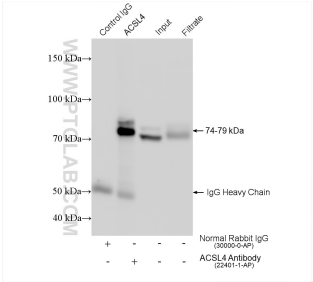
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 22401-1-AP (ACSL4/FACL4 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 22401-1-AP (ACSL4/FACL4 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



WB result of ACSL4/FACL4 antibody (22401-1-AP; 1:12000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ACSL4/FACL4 transfected HeLa cells.



IP result of anti-ACSL4/FACL4 (IP:22401-1-AP, 4ug; Detection:22401-1-AP 1:5000) with HEK-293 cells lysate 1400 ug.