

For Research Use Only

ACSL4/FACL4 Polyclonal antibody

Catalog Number: 22401-1-AP

Featured Product

230 Publications



Basic Information

Catalog Number:

22401-1-AP

Concentration:

750 ug/ml

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

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

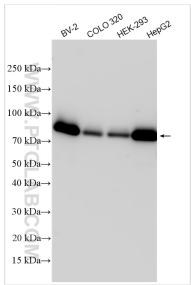
T: 4006900926

E: Proteintech-CN@ptglab.com

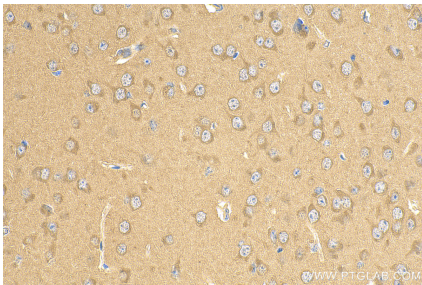
W: ptgcn.com

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

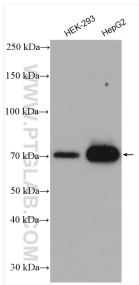
Selected Validation Data



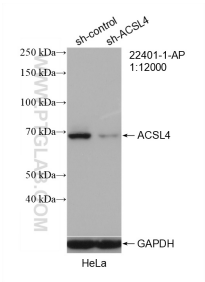
Various lysates were subjected to SDS PAGE followed by western blot with 22401-1-AP (ACSL4/FACL4 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



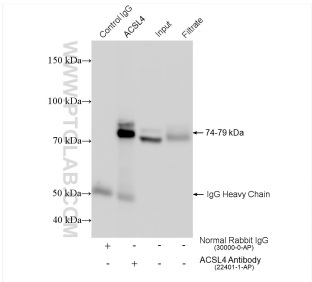
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 22401-1-AP (ACSL4/FACL4 antibody) at dilution of 1:200 (under 40x Lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.