

For Research Use Only

ACSS2 Polyclonal antibody

Catalog Number: 16087-1-AP

Featured Product

21 Publications



Basic Information

Catalog Number:

16087-1-AP

Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG9121

GenBank Accession Number:

BC010141

GeneID (NCBI):

55902

UNIPROT ID:

Q9NR19

Full Name:

acyl-CoA synthetase short-chain family member 2

Calculated MW:

701 aa, 79 kDa

Observed MW:

79 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:2000-1:16000

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

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, pig

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 : HEK-293 cells, mouse liver tissue, HepG2 cells, mouse brain tissue, rat liver tissue, Neuro-2a cells, rat brain tissue

IP : HepG2 cells,

IHC : human brain tissue,

Background Information

Acetyl-CoA Synthetase 2 (ACSS2) is also named as acyl-CoA synthetase short-chain family member 2. Acetyl-CoA Synthetase 2 (ACSS2) is responsible for lipogenesis by synthesizing acetyl-CoA from acetate for lipogenesis and promotes acetylation in nuclear (PMID: 29444517). It is also required for cell migration and invasion in renal cell carcinoma (RCC) through the promotion of autophagy (PMID: 29281714). ACSS2 has two isoforms with the molecular weight of 78 and 80 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Tao Chen	36438486	Theranostics	WB,IHC
Jingfei Zhang	36290717	Antioxidants (Basel)	WB
Anyuan He	32473093	Mol Cell	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

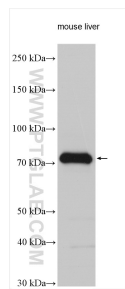
For technical support and original validation data for this product please contact:

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

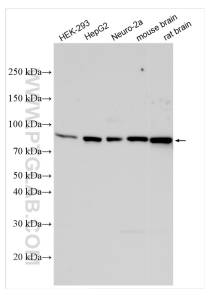
E: proteintech@ptglab.com
W: ptglab.com

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

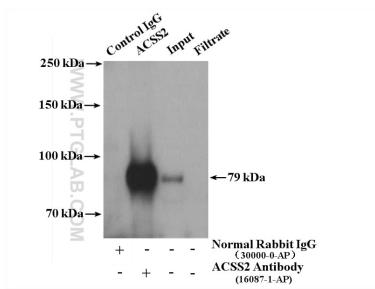
Selected Validation Data



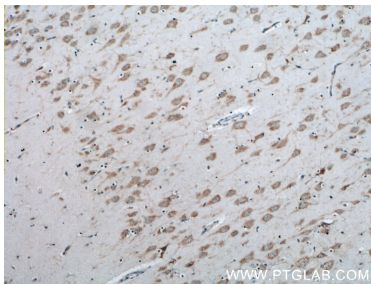
Various lysates were subjected to SDS PAGE followed by western blot with 16087-1-AP (ACSS2 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



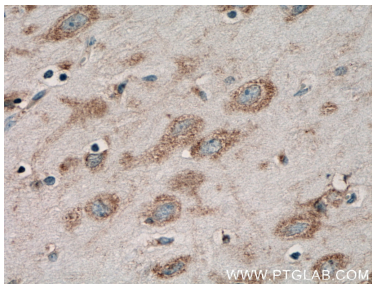
Various lysates were subjected to SDS PAGE followed by western blot with 16087-1-AP (ACSS2 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



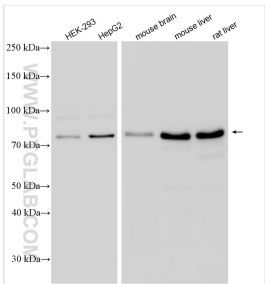
IP result of anti-ACSS2 (IP:16087-1-AP, 4ug; Detection:16087-1-AP 1:500) with HepG2 cells lysate 5600 ug.



Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 16087-1-AP (ACSS2 antibody) at dilution of 1:100 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 16087-1-AP (ACSS2 synthetase antibody) at dilution of 1:100 (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 16087-1-AP (ACSS2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.