

For Research Use Only

# ACSS3 Polyclonal antibody

Catalog Number: 16204-1-AP

Featured Product

6 Publications



## Basic Information

### Catalog Number:

16204-1-AP

### Size:

500 µg/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG9173

### GenBank Accession Number:

BC009317

### GeneID (NCBI):

79611

### UNIPROT ID:

Q9H6R3

### Full Name:

acyl-CoA synthetase short-chain family member 3

### Calculated MW:

686 aa, 75 kDa

### Observed MW:

70-75 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:5000

IHC 1:20-1:200

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, ELISA

### Cited Applications:

WB, IHC

### 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** : HepG2 cells, mouse kidney tissue, rat kidney tissue

**IHC** : human liver tissue,

**IF/ICC** : U2OS cells,

## Background Information

ACSS3(acyl-CoA synthetase short-chain family member 3, mitochondrial) belongs to the ATP-dependent AMP-binding enzyme family. It activates acetate so that it can be used for lipid synthesis or for energy generation. The deduced 686-amino acid protein contains 4 of 5 motifs characteristic of acyl-CoA synthetases. This protein has 2 isoforms produced by alternative splicing. The full length protein has a transit peptide with 29 amino acids.

## Notable Publications

Author	Pubmed ID	Journal	Application
Karolin Weitkunat	34064336	Nutrients	WB
Bing Zhou	39146936	Cell Metab	WB
Lan Wang	37979225	Biochim Biophys Acta Mol Basis Dis	IHC, 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

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

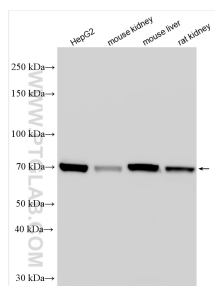
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

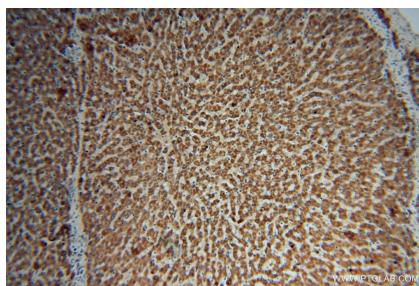
W: [ptgcn.com](http://ptgcn.com)

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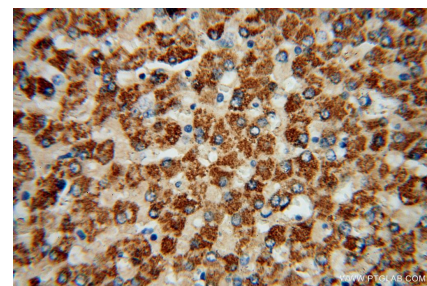
## Selected Validation Data



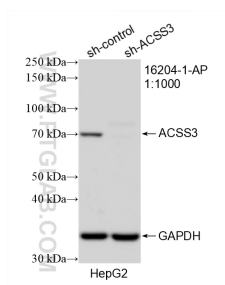
Various lysates were subjected to SDS PAGE followed by western blot with 16204-1-AP (ACSS3 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



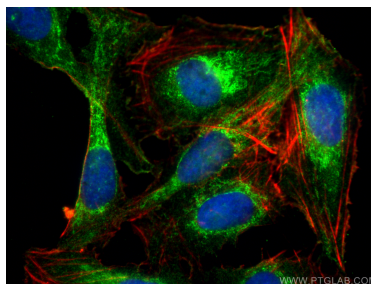
Immunohistochemical analysis of paraffin-embedded human liver using 16204-1-AP (ACSS3 antibody) at dilution of 1:100 (under 10x lens).



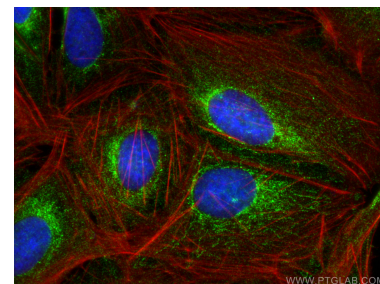
Immunohistochemical analysis of paraffin-embedded human liver using 16204-1-AP (ACSS3 antibody) at dilution of 1:100 (under 40x lens).



WB result of ACSS3 antibody (16204-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ACSS3 transfected HepG2 cells.



Immunofluorescent analysis of (4% PFA) fixed U2OS cells using ACSS3 antibody (16204-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed U2OS cells using ACSS3 antibody (16204-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).