

For Research Use Only

# ACSS2 Polyclonal antibody

Catalog Number: 16087-1-AP

Featured Product

9 Publications



## Basic Information

<b>Catalog Number:</b> 16087-1-AP	<b>GenBank Accession Number:</b> BC010141	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 500 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 55902	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
<b>Source:</b> Rabbit	<b>Full Name:</b> acyl-CoA synthetase short-chain family member 2	<b>IHC 1:50-1:500</b>
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 701 aa, 79 kDa	
<b>Immunogen Catalog Number:</b> AG9121	<b>Observed MW:</b> 79 kDa	

## Applications

**Tested Applications:**  
IHC, IP, WB, ELISA

**Cited Applications:**  
IF, IHC, WB

**Species Specificity:**  
human, mouse, rat

**Cited Species:**  
human, rat, 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:** HEK-293 cells, mouse liver tissue, HepG2 cells, mouse brain tissue, rat liver 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
Krishna B Singh	36251722	Cancer Prev Res (Phila)	WB,IHC,IF
Jingfei Zhang	36290717	Antioxidants (Basel)	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

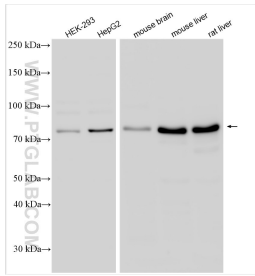
For technical support and original validation data for this product please contact:

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

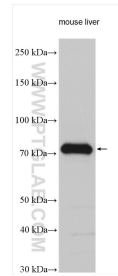
E: proteintech@ptglab.com  
W: ptglab.com

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

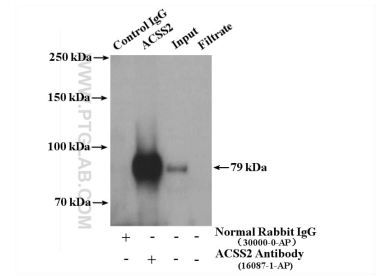
## Selected Validation Data



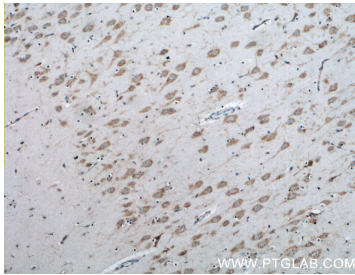
Various lysates were subjected to SDS PAGE followed by western blot with 16087-1-AP (ACSS2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



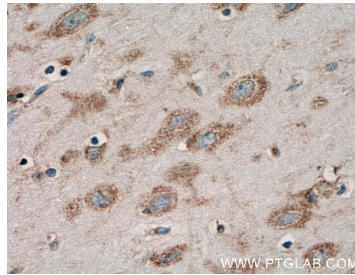
Various lysates were subjected to SDS PAGE followed by western blot with 16087-1-AP (ACSS2 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



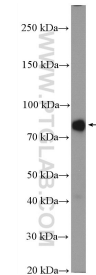
IP result of anti-Acetyl CoA synthetase (IP:16087-1-AP, 4ug; Detection:16087-1-AP 1:500) with HepG2 cells lysate 5600 ug.



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).



mouse liver tissue were subjected to SDS PAGE followed by western blot with 16087-1-AP (ACSS2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.