

For Research Use Only

# Spermidine synthase Polyclonal antibody

Catalog Number: 19858-1-AP

13 Publications



## Basic Information

### Catalog Number:

19858-1-AP

### Size:

150ul, Concentration: 550 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG13936

### GenBank Accession Number:

BC000309

### GeneID (NCBI):

6723

### UNIPROT ID:

P19623

### Full Name:

spermidine synthase

### Calculated MW:

302 aa, 34 kDa

### Observed MW:

34 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:3000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:250-1:1000

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF

### 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**: HeLa cells, LNCaP cells, HepG2 cells, PC-3 cells, mouse liver tissue, rat liver tissue, RAW 264.7 cells, mouse brain tissue

**IP**: mouse liver tissue,

**IHC**: human kidney tissue, human liver cancer tissue

**IF/ICC**: HepG2 cells,

## Background Information

Spermidine synthase is an enzyme that catalyzes the transfer of the propylamine group from S-adenosylmethionine to putrescine in the biosynthesis of spermidine. The polyamines putrescine, spermine, and spermidine are ubiquitous polycationic mediators of cell growth and differentiation. Spermidine synthases catalyze the production of the linear triamine, spermidine, from putrescine. They utilize decarboxylated S-adenosylmethionine (dc-SAM), a universal cofactor of aminopropyltransferases, as a donor of the aminopropyl moiety (PMID:31134111).

## Notable Publications

Author	Pubmed ID	Journal	Application
Takeshi Uemura	32995657	Heliyon	WB
Hongming Miao	27189574	Nat Commun	WB,IF
Fumihiko Urabe	32558033	Cancer Sci	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

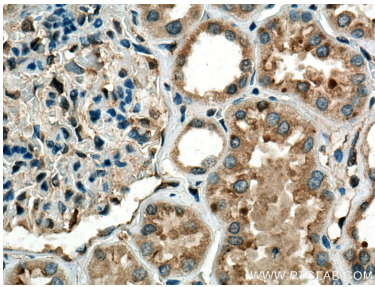
For technical support and original validation data for this product please contact:

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

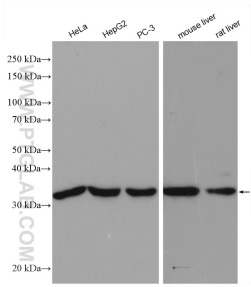
E: proteintech@ptglab.com  
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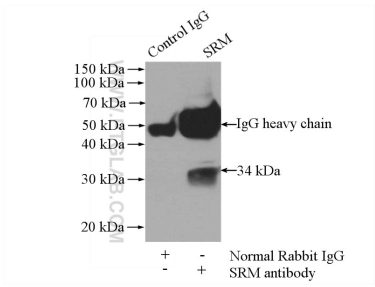
Selected Validation Data



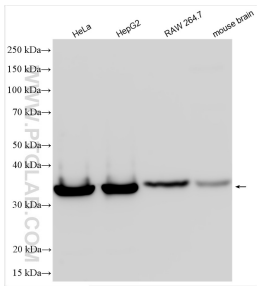
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 19858-1-AP (Spermidine synthase antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



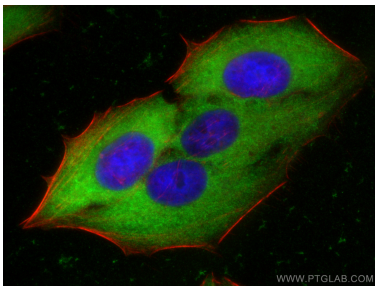
Various lysates were subjected to SDS PAGE followed by western blot with 19858-1-AP (Spermidine synthase antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



IP result of anti-Spermidine synthase (IP:19858-1-AP, 4ug; Detection:19858-1-AP 1:500) with mouse liver tissue lysate 4000ug.



HeLa cells were subjected to SDS PAGE followed by western blot with 19858-1-AP (Spermidine synthase antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using Spermidine synthase antibody (19858-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).