

For Research Use Only

# Septin 5 Polyclonal antibody

Catalog Number: 11631-1-AP

Featured Product

9 Publications



## Basic Information

### Catalog Number:

11631-1-AP

### Size:

150ul, Concentration: 500 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG2205

### GenBank Accession Number:

BC025261

### GeneID (NCBI):

5413

### UNIPROT ID:

Q99719

### Full Name:

septin 5

### Calculated MW:

369 aa, 43 kDa

### Observed MW:

40-43 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

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, IP, IHC, ELISA

### Cited Applications:

WB, IF, IP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat

**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** : Jurkat cells, mouse brain tissue, human brain tissue, NIH/3T3 cells, rat brain tissue, K-562 cells, LNCaP cells

**IP** : mouse brain tissue,

**IHC** : human gliomas tissue,

## Background Information

Septin 5, a septin family member formerly called cell division control related protein 1 (CDCrel), is encoded in the 200 kb region and is abundantly expressed in the developing and adult brains of mice and humans. Although its constitutive deletion does not cause detectable structural or developmental abnormalities in the mouse brain, Septin 5 has been implicated in subtle neuronal and behavioral functions. Septin 5 is expressed in presynaptic terminals and exerts negative regulatory control over neurotransmitter release by binding to SNARE-protein, which has been implicated in neuropsychiatric disorders (PMID: 19240081). Septin 5 has 2 isoforms with the molecular mass of 39 and 43 kDa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Mikael Marttinen	33203136	Cells	IF, WB
Katharina Neubauer	30019536	Cytoskeleton (Hoboken)	IF
Catarina B Ferreira	34954322	Neurobiol Dis	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

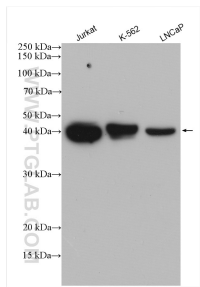
For technical support and original validation data for this product please contact:

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

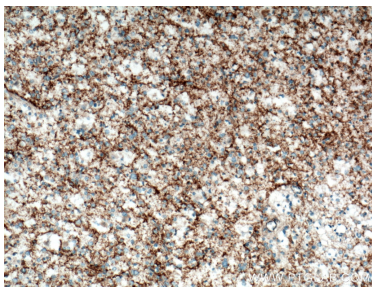
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

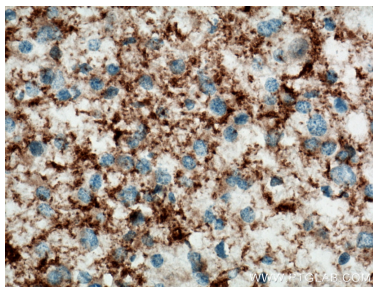
Selected Validation Data



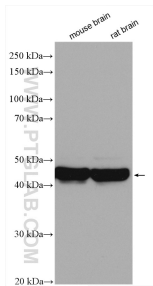
Jurkat cells were subjected to SDS PAGE followed by western blot with 11631-1-AP (Septin 5 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



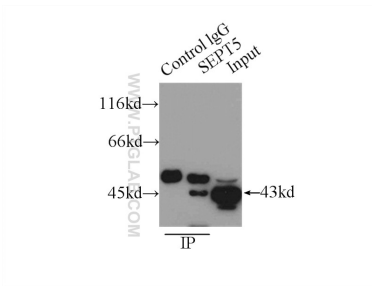
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 11631-1-AP (Septin 5 antibody) at dilution of 1:100 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 11631-1-AP (Septin 5 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 11631-1-AP (Septin 5 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



IP result of anti-Septin 5 (IP:11631-1-AP, 3ug; Detection:11631-1-AP 1:300) with mouse brain tissue lysate 1000ug.