

For Research Use Only

# Stathmin 1 Polyclonal antibody

Catalog Number: 11157-1-AP

Featured Product

28 Publications



## Basic Information

### Catalog Number:

11157-1-AP

### Concentration:

750 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1633

### GenBank Accession Number:

BC014353

### GeneID (NCBI):

3925

### UNIPROT ID:

P16949

### Full Name:

stathmin 1/oncoprotein 18

### Calculated MW:

18 kDa

### Observed MW:

18 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB: 1:1000-1:4000

IHC: 1:50-1:500

IF/ICC: 1:50-1:500

FC (Intra): 0.40 ug per 10<sup>6</sup> cells in a 100 µl suspension

## Applications

### Tested Applications:

WB, IHC, IF/ICC, FC (Intra), ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human

### 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, HepG2 cells, PC-12 cells

IHC : human gliomas tissue, human lymphoma tissue

IF/ICC : HeLa cells,

FC (Intra) : HeLa cells,

## Background Information

Stathmin 1 (STMN1) normally regulates microtubule dynamics either by sequestering free tubulin heterodimers or by promoting microtubule catastrophe. STMN1 is highly expressed in fetal and adult brain, spinal cord, and cerebellum. Many different phosphorylated forms are observed depending on specific combinations among the sites which can be phosphorylated. Phosphorylation of stathmin is involved in response to NGF, neuron polarization and microtubule polymerization inhibition activity. Increased expression of STMN1 has been observed in a variety of human malignancies, such as colorectal primary tumors and metastatic tissues, but its association with melanoma is so far not well known.

## Notable Publications

| Author         | Pubmed ID | Journal           | Application |
|----------------|-----------|-------------------|-------------|
| Heidi R Fuller | 26370173  | Mol Cell Neurosci | WB, IHC, IF |
| Lei Zhao       | 30202098  | Oncogene          | WB          |
| Xia-Ying Kuang | 26087399  | Oncotarget        | IHC         |

## 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

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

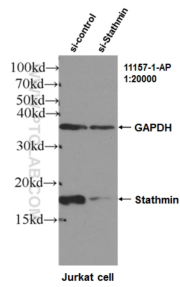
T: 4006900926

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

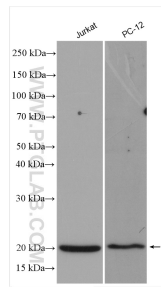
W: [ptgcn.com](http://ptgcn.com)

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

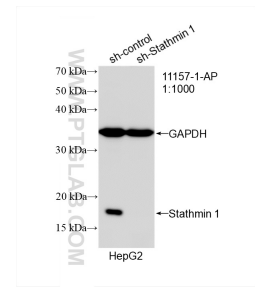
## Selected Validation Data



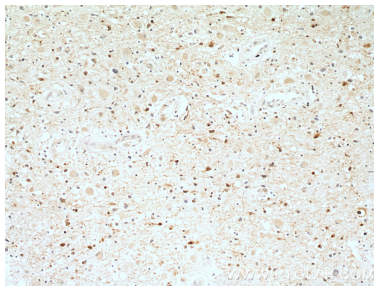
WB results of Stathmin antibody (11157-1-AP, 1:20000) with si-control and si-Stathmin transfected Jurkat cells..



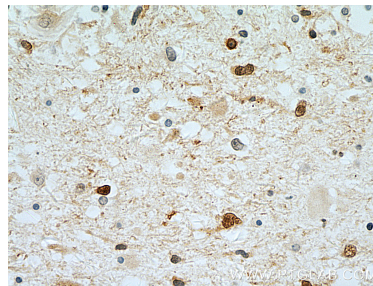
Various lysates were subjected to SDS PAGE followed by western blot with 11157-1-AP (Stathmin 1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



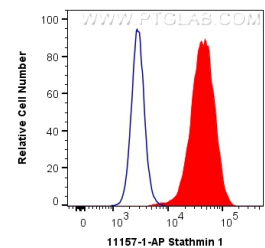
WB result of Stathmin 1 antibody (11157-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Stathmin 1 transfected HepG2 cells.



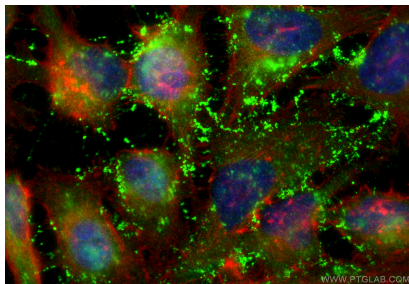
Immunohistochemical analysis of paraffin-embedded human gliomas tissue slide using 11157-1-AP (Stathmin 1 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human gliomas using 11157-1-AP (Stathmin 1 antibody) at dilution of 1:50 (under 10x lens).



$1 \times 10^6$  HeLa cells were intracellularly stained with 0.4 ug Anti-Human Stathmin 1 (11157-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using Stathmin 1 antibody (11157-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).