

For Research Use Only

# Stathmin 1 Recombinant antibody

Catalog Number: 82559-1-RR

Featured Product



## Basic Information

<b>Catalog Number:</b> 82559-1-RR	<b>GenBank Accession Number:</b> BC014353	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3925	<b>CloneNo.:</b> 2H6
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P16949	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IHC 1:1000-1:4000 IF-P 1:250-1:1000 IF/ICC 1:500-1:2000
<b>Isotype:</b> IgG	<b>Full Name:</b> stathmin 1/oncoprotein 18	
<b>Immunogen Catalog Number:</b> AG1633	<b>Calculated MW:</b> 18 kDa	
	<b>Observed MW:</b> 18 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, IF-P, ELISA

**Species Specificity:**  
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 :** SH-SY5Y cells, HepG2 cells, Jurkat cells, PC-12 cells

**IHC :** rat brain tissue, human tonsillitis tissue

**IF-P :** mouse brain tissue,

**IF/ICC :** HeLa cells, NIH/3T3 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.

## Storage

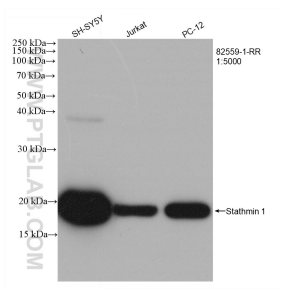
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

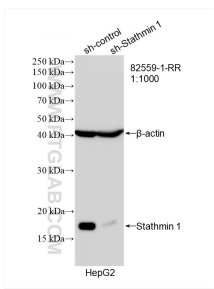
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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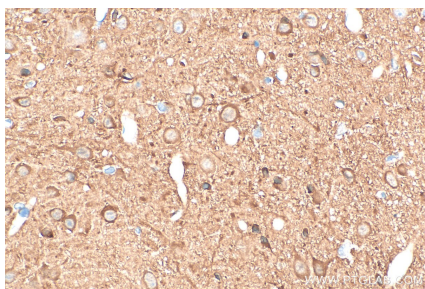
Selected Validation Data



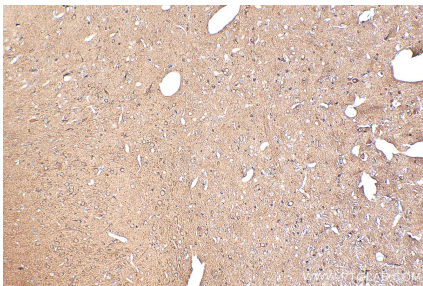
Various lysates were subjected to SDS PAGE followed by western blot with 82559-1-RR (Stathmin 1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



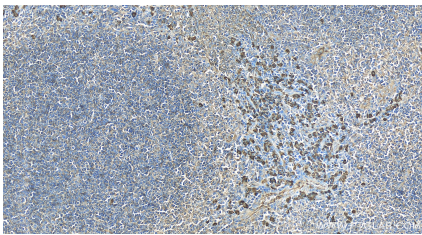
WB result of Stathmin 1 antibody (82559-1-RR; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Stathmin 1 transfected HepG2 cells.



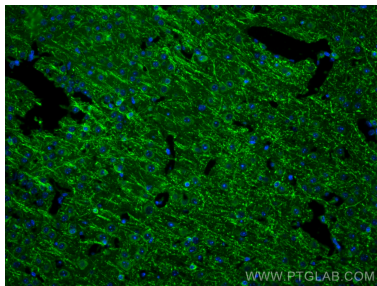
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 82559-1-RR (Stathmin 1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



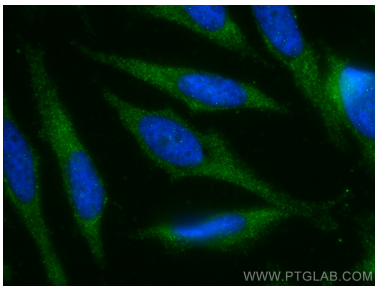
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 82559-1-RR (Stathmin 1 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



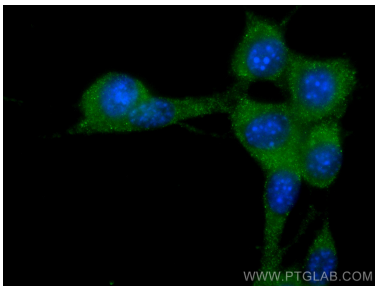
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 82559-1-RR (Stathmin 1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



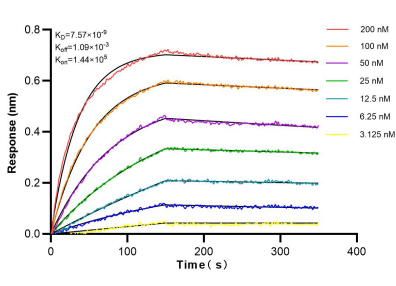
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using Stathmin 1 antibody (82559-1-RR, Clone: 2H6) at dilution of 1:500 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using Stathmin 1 antibody (82559-1-RR, Clone: 2H6) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunofluorescent analysis of (-20°C Methanol) fixed NIH/3T3 cells using Stathmin 1 antibody (82559-1-RR, Clone: 2H6) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Bilayer interferometry (BLI) kinetic assays of 82559-1-RR against Human Stathmin 1 were performed. The affinity constant is 7.57 nM.