

For Research Use Only

# STMN2 Recombinant antibody

Catalog Number: 82925-1-RR



## Basic Information

### Catalog Number:

82925-1-RR

### Size:

1000 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG0929

### GenBank Accession Number:

BC006302

### GeneID (NCBI):

11075

### UNIPROT ID:

Q93045

### Full Name:

stathmin-like 2

### Calculated MW:

21 kDa

### Observed MW:

18-21 kDa

### Purification Method:

Protein A purification

### CloneNo.:

230110D5

### Recommended Dilutions:

WB 1:5000-1:50000

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

IHC 1:200-1:800

IF-P 1:250-1:1000

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IF-P, FC (Intra), IP, 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 : mouse brain tissue, rat brain tissue, fetal human brain tissue

IP : mouse brain tissue,

IHC : mouse brain tissue,

IF-P : mouse brain tissue,

IF/ICC : SH-SY5Y cells,

## Background Information

Stathmin-2 (encoded by STMN2), a member of the stathmin family of proteins, encodes a phosphoprotein that has an important role in microtubule dynamics. The STMN2 protein promotes microtubule dynamics in axonal growth cones, and is thought to play an important role in neurite outgrowth. STMN2 protein is localized in both Golgi and cytosolic compartments. Its expression appears modulated in osteoblasts by nerve growth factor, dexamethasone or RhoA kinase inhibitor Y-27632 which are known effectors of osteogenesis. (PMID: 33841129, PMID: 18611392)

## 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

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

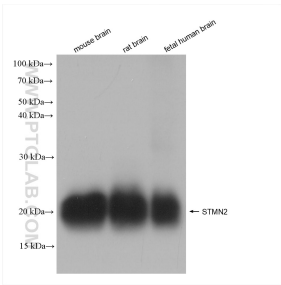
T: 4006900926

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

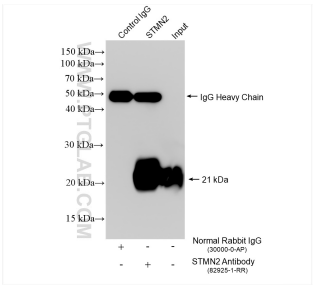
W: [ptgcn.com](http://ptgcn.com)

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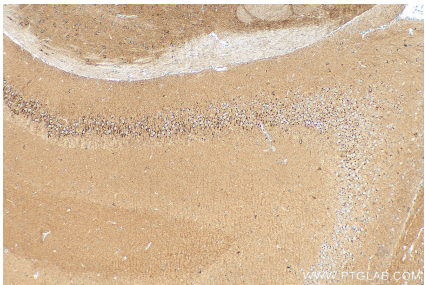
Selected Validation Data



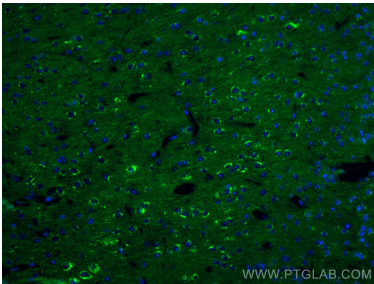
Various lysates were subjected to SDS PAGE followed by western blot with 82925-1-RR (STMN2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



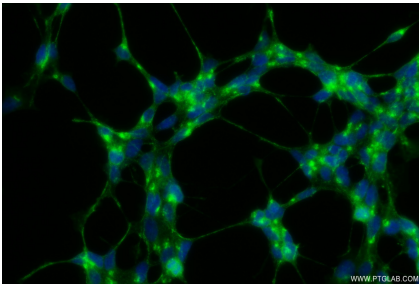
IP result of anti-STMN2 (IP:82925-1-RR, 4ug; Detection:82925-1-RR 1:5000) with mouse brain tissue lysate 1800 ug.



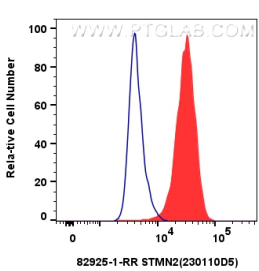
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 82925-1-RR (STMN2 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



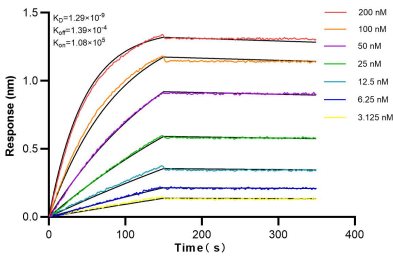
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brain tissue using STMN2 antibody (82925-1-RR, Clone: 230110D5) at dilution of 1:500 and Multi-rAb Coralite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed SH-SY5Y cells using STMN2 antibody (82925-1-RR, Clone: 230110D5) at dilution of 1:400 and Coralite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1x10<sup>6</sup> SH-SY5Y cells were intracellularly stained with 0.4 ug STMN2 Recombinant antibody (82925-1-RR, Clone:230110D5) and Coralite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2) (red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 82925-1-RR against Human STMN2 were performed. The affinity constant is 1.29 nM.