

For Research Use Only

# STMN2 Monoclonal antibody

Catalog Number: 67204-1-Ig **1 Publications**



## Basic Information

<b>Catalog Number:</b> 67204-1-Ig	<b>GenBank Accession Number:</b> BC006302	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul, Concentration: 1000 µg/ml by Nanodrop and 428 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 11075	<b>CloneNo.:</b> 1F6C4
<b>Source:</b> Mouse	<b>Full Name:</b> stathmin-like 2	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IHC 1:50-1:500 IF 1:500-1:2000
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 21 kDa	
<b>Immunogen Catalog Number:</b> AG28990	<b>Observed MW:</b> 22 kDa	

## Applications

### Tested Applications:

IF, IHC, WB, ELISA

### Cited Applications:

IF

### Species Specificity:

Human, Mouse, Rat, Pig

### Cited Species:

human

**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 : PC-12 cells, fetal human brain tissue, pig brain tissue, rat brain tissue, mouse brain tissue

IHC : mouse brain tissue,

IF : SH-SY5Y cells,

## Background Information

STMN2 gene encodes a SCG10 (superior cervical ganglion-10) protein, a regulator of microtubule stability. When phosphorylated by MAPK8, SCG10 stabilizes microtubules and consequently controls neurite length in cortical neurons. SCG10 was early considered a neuron-specific growth-associated protein in Alzheimer's disease. In the developing brain, SCG10 negatively regulates the rate of exit from multipolar stage and retards radial migration from the ventricular zone.

## Notable Publications

Author	Pubmed ID	Journal	Application
Marian Hruska-Plochan	38355792	Nature	IF

## 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

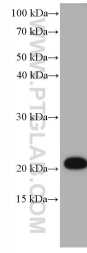
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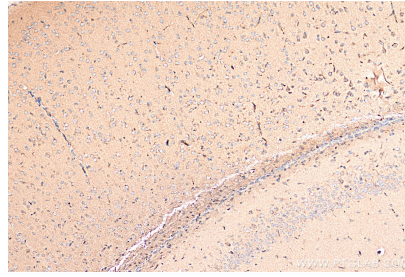
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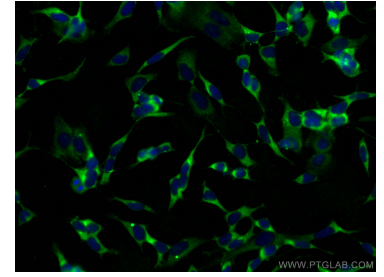
## Selected Validation Data



PC-12 cells were subjected to SDS PAGE followed by western blot with 67204-1-Ig (STMN2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67204-1-Ig (STMN2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using STMN2 antibody (67204-1-Ig, Clone: 1F6C4) at dilution of 1:1000 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).