STMN2 Polyclonal ANTIBODY

Catalog Number: 10586-1-AP

Basic Information

**Catalog Number:**
10586-1-AP

**Size:**
27 μg/150 μl

**Source:**
Rabbit

**Isotype:**
IgG

**Purification Method:**
Antigen affinity purification

**Immunogen Catalog Number:**
AG0929

**GenBank Accession Number:**
BC006302

**GeneID (NCBI):**
11075

**Full Name:**
stathmin-like 2

**Calculated MW:**
21 kDa

**Observed MW:**
18-21 kDa

**Recommended Dilutions:**

- **WB:** 1:1000-1:4000
- **IP:** 0.5-4.0 μg for IP and 1:100-1:2000 for WB
- **IHC:** 1:50-1:500
- **IF:** 1:10-1:100

Applications

**Tested Applications:**
IF, IHC, IP, WB, ELISA

**Cited Applications:**
IF, IHC, WB

**Species Specificity:**
human, mouse

**Cited Species:**
human, mouse

**Note:** suggested antigen retrieval with TE buffer pH 9.5; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

**Positive Controls:**

- **WB:** mouse brain tissue; mouse cerebellum tissue
- **IP:** mouse brain tissue;
- **IHC:** human medulloblastoma 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

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<tr>
<th>Author</th>
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<tbody>
<tr>
<td>Konstantin Feinberg</td>
<td>28877965</td>
<td>J Cell Biol</td>
<td>WB</td>
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<tr>
<td>Jun Makai</td>
<td>25913858</td>
<td>Neuron</td>
<td>WB</td>
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<tr>
<td>Catherine M Greppe</td>
<td>27359458</td>
<td>J Neurosci</td>
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Storage

**Storage:**
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**
PBS with 0.5% 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 1 (888) 4PTGLAB (toll free in USA), or (312) 455-8498 (outside USA)
E proteintech@ptglab.com
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
Immunohistochemistry of paraffin-embedded human medulloblastoma tissue slide using 10586-1-AP (STMN2 antibody) at dilution of 1:200 (under 10x lens) heat mediated antigen retrieved with Tris-EDTA buffer (pH9).

Immunohistochemistry of paraffin-embedded human medulloblastoma tissue slide using 10586-1-AP (STMN2 antibody) at dilution of 1:200 (under 40x lens) heat mediated antigen retrieved with Tris-EDTA buffer (pH9).

Mouse brain tissue were subjected to SDS PAGE followed by western blot with 10586-1-AP (STMN2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.

IP Result of anti-STMN2 (IP: 10586-1-AP, 3ug; Detection: 10586-1-AP 1:1000) with mouse brain tissue lysate 9500ug.

Immunofluorescent analysis of SH-SY5Y cells using 10586-1-AP (STMN2 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).