

STMN3 Polyclonal antibody

Catalog Number: 11311-1-AP

Featured Product

7 Publications

Basic Information

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| Catalog Number: 11311-1-AP | GenBank Accession Number: BC009381 | Purification Method: Antigen affinity purification |
| Size: 150ul , Concentration: 1000 µg/ml by Nanodrop and 447 µg/ml by Bradford method using BSA as the standard; | GeneID (NCBI): 50861 | Recommended Dilutions: WB 1:5000-1:20000 IHC 1:20-1:200 |
| Source: Rabbit | Full Name: stathmin-like 3 | |
| Isotype: IgG | Calculated MW: 21 kDa | |
| Immunogen Catalog Number: AG1853 | Observed MW: 21-25 kDa | |

Applications

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| Tested Applications: IHC, WB, ELISA | Positive Controls: WB : SH-SY5Y cells, IHC : human colon cancer tissue, |
| Cited Applications: IF, IHC, WB | |
| Species Specificity: human, mouse, rat | |
| Cited Species: human, mouse | |
| Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 | |

Background Information

Stathmin family phosphoproteins participate in the control of microtubule dynamics and have been proposed to be involved in the control of neuronal differentiation. Neuron specific Stathmin-3 (STMN3) is a novel STAT3 (signal transducer and activator of transcription 3) interacting protein. STAT3 is a key contributor to cancer cell migration and invasion. STMN3 exhibits microtubule-destabilizing activity, which is antagonized by STAT3. SCG10 is a widely studied and recognized neuronal differentiation marker, STMN3 is a SCG10-like protein (SCLIP) and is present from the earliest stages of hippocampal neuron differentiation in culture at vesicle-like structures following dynamic microtubules. RNAi mediated inhibition of this gene resulted in increased axonal branching.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|-----------------|-----------|------------|-------------|
| Stephan Singer | 19258502 | Cancer Res | WB, IHC |
| Nicholas Rooney | 32156779 | Cancer Res | WB |
| Kelsey L Krus | 35767949 | Cell Rep | WB |

Storage

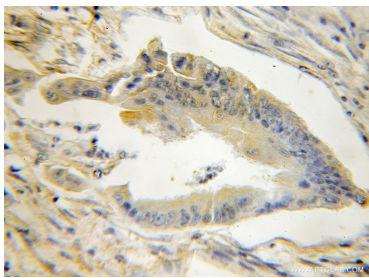
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
 Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

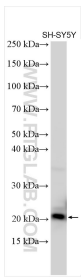
For technical support and original validation data for this product please contact:
 T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
 E: proteintech@ptglab.com
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Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human colon cancer using 11311-1-AP (STMN3 antibody) at dilution of 1:50 (under 10x lens).



SH-SY5Y cells were subjected to SDS PAGE followed by western blot with 11311-1-AP (STMN3 antibody) at dilution of 1:15000 incubated at room temperature for 1.5 hours.