

For Research Use Only

# SPAST Polyclonal antibody

Catalog Number: 22792-1-AP

Featured Product

4 Publications



## Basic Information

### Catalog Number:

22792-1-AP

### Size:

150ul, Concentration: 440 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG18797

### GenBank Accession Number:

BC150260

### GeneID (NCBI):

6683

### UNIPROT ID:

Q9UBPO

### Full Name:

spastin

### Calculated MW:

616 aa, 67 kDa

### Observed MW:

52 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IHC 1:50-1:500

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, ELISA

### Cited Applications:

WB, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat

### Positive Controls:

WB : HeLa cells, PC-3 cells

IHC : human ovary cancer tissue,

IF/ICC : HeLa cells,

**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

SPAST encodes a microtubule-severing protein called spastin. By severing microtubules into small segments, SPAST participates in the growth and regeneration of neurites. Mutations in the SPAST gene (previously known as SPG4) are the most common causes of hereditary spastic paraplegia (HSP-SPG4). Mammalian cells express at least two spastin isoforms, a less-abundant full-length form (M1-spastin, 68 kDa) and a more highly expressed isoform (M87-spastin, 60 kDa) that lacks the N-terminal 86 amino acids of the full-length protein. Also, there are two additional 64 kDa and 55 kDa isoforms due to alternative splicing of SPG4 exon 4. This antibody recognizes all these isoforms of spastin.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yongping Chen	36414997	Acta Neuropathol Commun	WB,IF
Ying Gao	27815338	FASEB J	WB
Megan E Kelley	38335450	Mol Biol Cell	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

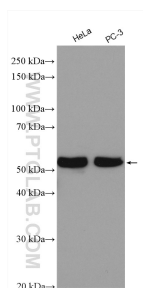
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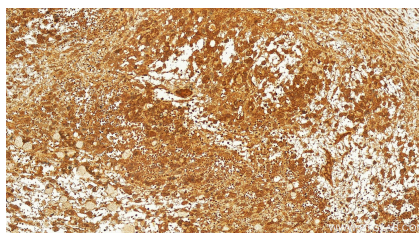
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 22792-1-AP (SPAST antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 22792-1-AP (SPAST antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using SPAST antibody (22792-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).