For Research Use Only

SPAST Polyclonal antibody

Catalog Number:22792-1-AP Featured Product 4 Publications

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Basic Information

Catalog Number:
22792-1-AP

Size:
150ul , Concentration: 440 µg/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:
Q9UBP0

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
IF/ICC 1:200-1:800

Applications

Tested Applications:
WB, IF, ELISA

Cited Applications:
WB, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, mouse

Positive Controls:

WB : HeLa cells, PC-3 cells

IF/ICC : HeLa cells,

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

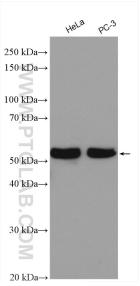
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

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
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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.

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).