

For Research Use Only

SPAST Monoclonal antibody

Catalog Number: 67361-1-Ig **1 Publications**



Basic Information

Catalog Number: 67361-1-Ig	GenBank Accession Number: BC150260	Purification Method: Protein A purification
Size: 1200 µg/ml	GeneID (NCBI): 6683	CloneNo.: 1F5A7
Source: Mouse	UNIPROT ID: Q9UBP0	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:500-1:2000 IF-P 1:200-1:800
Isotype: IgG2b	Full Name: spastin	
Immunogen Catalog Number: AG18866	Calculated MW: 616 aa, 67 kDa Observed MW: 55 kDa	

Applications

Tested Applications: WB, IHC, IF-P, ELISA	Positive Controls: WB : HEK-293 cells, NCCIT cells, HeLa cells, PC-3 cells, HepG2 cells IHC : mouse brain tissue, IF-P : mouse brain tissue,
Cited Applications: WB	
Species Specificity: Human, mouse	
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	

Background Information

SPAST encodes a microtubule-severing protein called spastin. By severing microtubules into small segments, SPAST participates in the 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
Marina Reichlmeir	39615799	Neurobiol Dis	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

For technical support and original validation data for this product please contact:

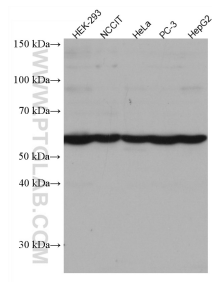
T: 4006900926

E: Proteintech-CN@ptglab.com

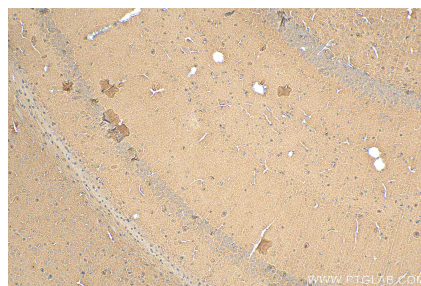
W: ptgcn.com

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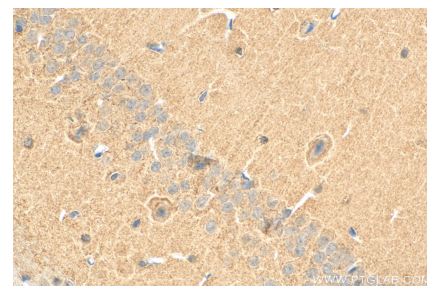
Selected Validation Data



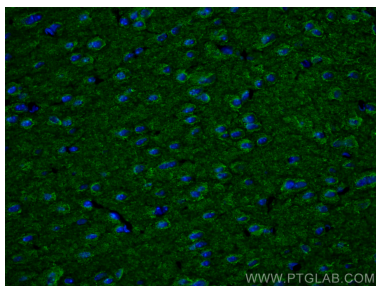
Various lysates were subjected to SDS PAGE followed by western blot with 67361-1-Ig (SPAST antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67361-1-Ig (SPAST antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67361-1-Ig (SPAST antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using SPAST antibody (67361-1-Ig, Clone: 1F5A7) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).