

# SPAST Monoclonal antibody, PBS Only

Catalog Number: 67361-1-PBS

## Basic Information

Catalog Number: 67361-1-PBS	GenBank Accession Number: BC150260	Purification Method: Protein A purification
Size: 1 mg/ml	GeneID (NCBI): 6683	CloneNo.: 1F5A7
Source: Mouse	UNIPROT ID: Q9UBP0	
Isotype: IgG2b	Full Name: spastin	
Immunogen Catalog Number: AG18866	Calculated MW: 616 aa, 67 kDa	
	Observed MW: 55 kDa	

## Applications

Tested Applications:  
WB, Indirect ELISA, IHC, IF

Species Specificity:  
Human, mouse

## 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.

## Storage

Storage:  
Store at -80°C.  
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:  
PBS Only

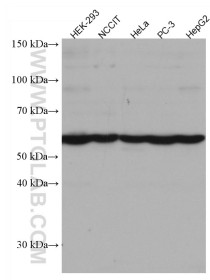
For technical support and original validation data for this product please contact:

T: 4006900926

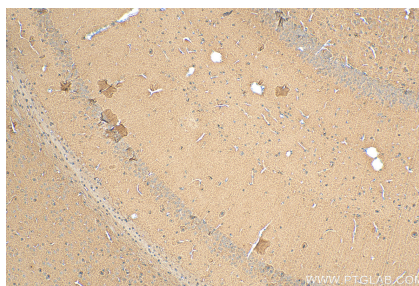
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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

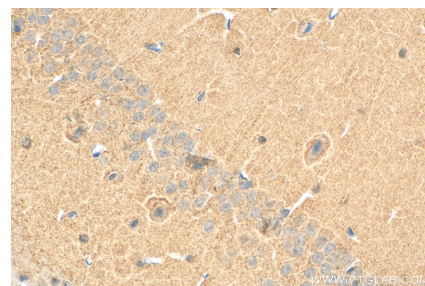
## Selected Validation Data



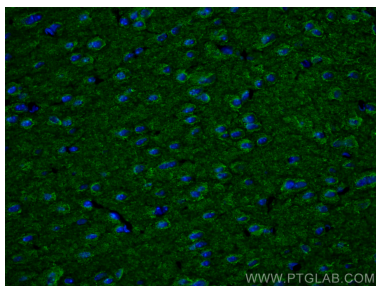
Various lysates were subjected to SDS PAGE followed by western blot with 67361-1-Ig (SPAST antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 67361-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 67361-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 67361-1-PBS in a different storage buffer formulation.



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 AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 67361-1-PBS in a different storage buffer formulation.