Spastin Monoclonal Mouse Antibody (Sp 3G11-1)



Product Description

The AAA protein family members share an ATPase domain and have roles in various cellular processes including intracellular motility, membrane trafficking, proteolysis, protein folding and organelle biogenesis. Spastin, a member of the AAA protein family, is a 616 amino acid protein and is involved in the function or assembly of nuclear protein complexes. The Spastin protein is expressed ubiquitously and localizes to the nucleus and the cytoplasm, where it may also be involved in microtubule dynamics. Mutations in the Spastin gene (SPAST, SPG4) cause the most common form of spastic paraplegia 4, an autosomal dominant form of hereditary spastic paraplegia (HSP). HSPs comprise a group of inherited neurological disorders characterized by spastic lower extremity weakness due to a length-dependent, retrograde axonopathy of corticospinal motor neurons. SPAST-specific mutations account for approximately 40% of all autosomal dominant HSPs. Primary antibodies are available purified, or with a selection of fluorescent CF® dyes and other labels. CF® dyes offer exceptional brightness and photostability. See the CF® Dye Brochure for more information. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors. **Stock status**: Because Biotium offers a large number of antibody and conjugation options, primary antibody conjugates may be made to order. Typical lead times are up to one week for CF® dye and biotin conjugates, and up to 2-3 weeks for fluorescent protein and enzyme conjugates. Please email order@biotium.com to inquire about stock status and lead times before placing your order.

References

Note: References for this clone sold by other suppliers may be listed for expected applications.

- 1. J Cell Biol (2010) 189(6): 945-954. (WB)
- 2. eLife (2015) 4:e05068. (IF)
- 3. Oncotarget (2016) 7(21): 30820-30830. (IF)

kDa		IR.	R
250			
150 —		-	
100			
75	_		
50	-		_
37	-		
25	_		_
20	-		
15	-		
10			

(target) Antibody type	Primary				
Host species	Mouse				
Clonality	Monoclonal				
Clone	Sp 3G11-1				
Isotype	IgG2a, kappa				
Molecular weight	52 kDa				
Synonyms	ADPSP; FSP2; Spast; Spatin; SPG4				
Human gene symbol	SPAST				
Entrez gene ID	6683				
SwissProt	Q9UP0				
Unigene	468091				
Immunogen	Recombinant full-length human Spastin protein.				
Antibody target cellular localization	Plasma membrane, Secreted (extracellular)				
Species reactivity	Human, Mouse, Rat				
Expected antibody applications	IF (published for clone), WB (published for clone)				
Positive control	HeLa cells. Rat brain extract.				
Shipping condition	Room temperature				
Storage Conditions	Note: store BSA-free antibodies at -10 to -35°C, Store at 2 to 8 °C, Protect fluorescent conjugates from light				
Regulatory status	For research use only (RUO)				
Antibody/conjugate formulation	Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide, Purified, BSA-free: 1 mg/mL in PBS				
Shelf life	without azide Guaranteed for at least 24 months from				

date of receipt when stored as recommended

#2844

Spastin

Call us: 800-304-5357 Email: btinfo@biotium.com

Product attributes

Antibody number

Antibody reactivity

Antibody # prefix	Conjugation	Ex/Em (nm)	Laser line	Detection channel	Dye Features
BNC04	CF®405S	404/431	405	DAPI (microscopy), AF405	CF®405S Features
BNC88	CF®488A	490/515	488	GFP, FITC	CF®488A Features
BNC68	CF®568	562/583	532, 561	RFP, TRITC	CF®568 Features
BNC94	CF®594	593/614	561	Texas Red®	CF®594 Features
BNC40	CF®640R	642/662	633-640	Cy®5	CF®640R Features
BNC47	CF®647	650/665	633-640	Cy®5	CF®647 Features
BNCB	Biotin	N/A	N/A	N/A	
BNUB	Purified	N/A	N/A	N/A	
BNUM	Purified,	N/A	N/A	N/A	

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