

SPAST Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant SPAST.

Catalog # AT4016a

Product Information

Application	WB, IHC, IF
Primary Accession	Q9UBP0
Other Accession	NM_014946
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	2F5
Calculated MW	67197

Additional Information

Gene ID	6683
Other Names	Spastin {ECO:0000255 HAMAP-Rule:MF_03021}, 3643 {ECO:0000255 HAMAP-Rule:MF_03021}, Spastic paraplegia 4 protein, SPAST {ECO:0000255 HAMAP-Rule:MF_03021}
Target/Specificity	SPAST (NP_055761, 200 a.a. ~ 304 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 IF~~1:50~200
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	SPAST Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

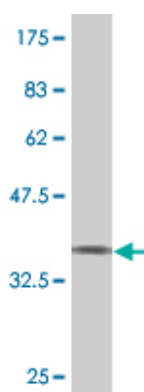
Background

This gene encodes a member of the AAA (ATPases associated with a variety of cellular activities) protein family. Members of this protein family share an ATPase domain and have roles in diverse cellular processes including membrane trafficking, intracellular motility, organelle biogenesis, protein folding, and proteolysis. The encoded ATPase may be involved in the assembly or function of nuclear protein complexes. Two transcript variants encoding distinct isoforms have been identified for this gene. Other alternative splice variants have been described but their full length sequences have not been determined. Mutations associated with this gene cause the most frequent form of autosomal dominant spastic paraplegia 4.

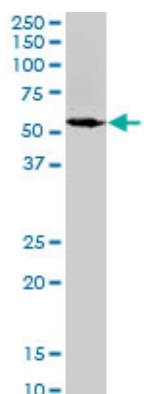
References

Unique spectrum of SPAST variants in Estonian HSP patients: presence of benign missense changes but lack of exonic rearrangements. Braschinsky M, et al. BMC Neurol, 2010 Mar 9. PMID 20214791. Hereditary spastic paraplegia proteins REEP1, spastin, and atlastin-1 coordinate microtubule interactions with the tubular ER network. Park SH, et al. J Clin Invest, 2010 Apr 1. PMID 20200447. Functional conservation of human Spastin in a Drosophila model of autosomal dominant-hereditary spastic paraplegia. Du F, et al. Hum Mol Genet, 2010 May 15. PMID 20154342. A novel splicing mutation (c.870+3A>G) in SPG4 in a Korean family with hereditary spastic paraplegia. Lim JS, et al. J Neurol Sci, 2010 Mar 15. PMID 19939411. Mutation analysis of the SPG4 gene in Italian patients with pure and complicated forms of spastic paraplegia. Magariello A, et al. J Neurol Sci, 2010 Jan 15. PMID 19875132.

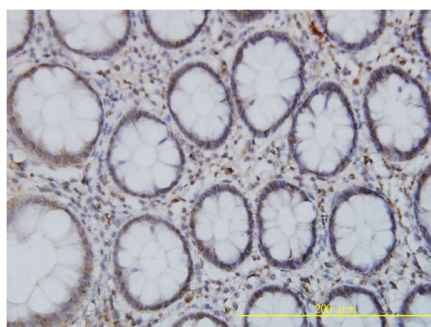
Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.29 KDa) .

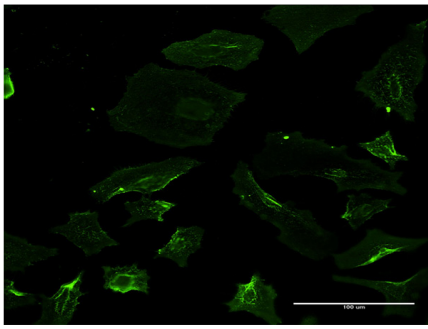


SPAST monoclonal antibody (M02), clone 2F5. Western Blot analysis of SPAST expression in Jurkat (Cat # AT4016a)



Immunoperoxidase of monoclonal antibody to SPAST on formalin-fixed paraffin-embedded human colon. [antibody concentration 1 ~ 10 ug/ml]

Immunofluorescence of monoclonal antibody to SPAST on HeLa cell . [antibody concentration 10 ug/ml]



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.