

SPG3A Antibody (monoclonal) (M03)

Mouse monoclonal antibody raised against a partial recombinant SPG3A.

Catalog # AT4019a

Product Information

Application	WB, E
Primary Accession	Q8WXF7
Other Accession	NM_015915
Reactivity	Human, Rat
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	1B9
Calculated MW	63544

Additional Information

Gene ID	51062
Other Names	Atlastin-1, 365-, Brain-specific GTP-binding protein, GTP-binding protein 3, GBP-3, hGBP3, Guanine nucleotide-binding protein 3, Spastic paraplegia 3 protein A, ATL1, GBP3, SPG3A
Target/Specificity	SPG3A (NP_056999, 1 a.a. ~ 100 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
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	SPG3A Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

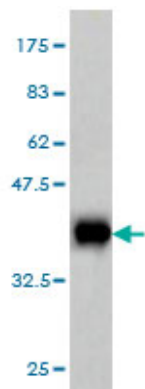
Background

The protein encoded by this gene is a GTPase and a Golgi body transmembrane protein. The encoded protein can form a homotetramer and has been shown to interact with spastin and with mitogen-activated protein kinase kinase kinase 4. This protein may be involved in axonal maintenance as evidenced by the fact that defects in this gene are a cause of spastic paraplegia type 3. Three transcript variants encoding two different isoforms have been found for this gene.

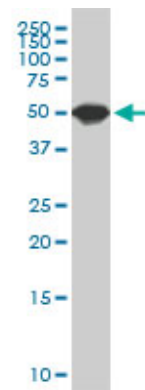
References

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. Association of genetic variants with hemorrhagic stroke in Japanese individuals. Yoshida T, et al. Int J Mol Med, 2010 Apr. PMID 20198315. Common genetic variation and performance on standardized cognitive tests. Cirulli ET, et al. Eur J Hum Genet, 2010 Jul. PMID 20125193. Assessment of a polymorphism of SDK1 with hypertension in Japanese Individuals. Oguri M, et al. Am J Hypertens, 2010 Jan. PMID 19851296. Complex phenotype in an Italian family with a novel mutation in SPG3A. de Leva MF, et al. J Neurol, 2010 Mar. PMID 19768483.

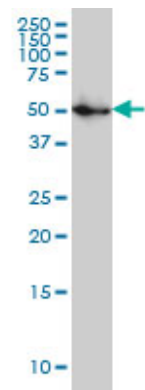
Images



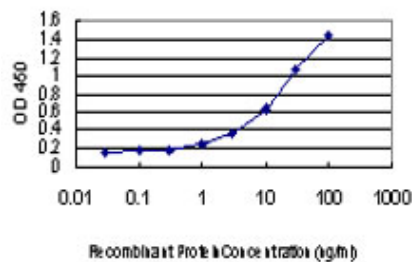
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .



SPG3A monoclonal antibody (M03), clone 1B9. Western Blot analysis of SPG3A expression in PC-12 ((Cat # AT4019a)



SPG3A monoclonal antibody (M03), clone 1B9 Western Blot analysis of SPG3A expression in IMR-32 ((Cat # AT4019a)



Detection limit for recombinant GST tagged SPG3A is approximately 1ng/ml as a capture antibody.

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