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Datasheet for ABIN7194321 ATL1 Protein (GST tag)

Background:



Overview	
Quantity:	100 µg
Target:	ATL1
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATL1 protein is labelled with GST tag.
Product Details	
Purpose:	Recombinant Human ATL1/SPG3A/Atlastin-1 Protein (GST Tag)
Sequence:	Met 1-Thr 447
Characteristics:	A DNA sequence encoding the human SPG3A (NP_056999.2) (Met 1-Thr 447) was fused with the GST tag at the N-terminus.
Purity:	> 80 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per μ g as determined by the LAL method.
Target Details	
Target:	ATL1
Alternative Name:	ATL1/SPG3A/Atlastin-1 (ATL1 Products)

Background: Atlastin-1, also known as Spastic paraplegia 3 protein A, Guanine nucleotidebinding protein 3, GTP-binding protein 3, GBP3, ATL1 and SPG3A, is a multi-pass membrane

protein which belongs to the GBP family and atlastin subfamily. ATL1 / SPG3A is expressed

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	predominantly in the adult and fetal central nervous system. Expression of ATL1 / SPG3A in
	adult brain is at least 50-fold higher than in other tissues. ATL1 / SPG3A is detected
	predominantly in pyramidal neurons in the cerebral cortex and the hippocampus of the brain.
	ATL1 / SPG3A is also expressed in upper and lower motor neurons (at protein level). A
	distinguishing feature of ATL1 / SPG3A is its frequent early onset, raising the possibility that
	developmental abnormalities may be involved in its pathogenesis. Missense SPG3A mutant
	atlastin-1 proteins have impaired GTPase activity and may act in a dominant-negative, loss-of-
	function manner by forming mixed oligomers with wild-type atlastin-1. Defects in ATL1 / SPG3A
	are the cause of spastic paraplegia autosomal dominant type 3 (SPG3), also known as
	Strumpell-Lorrain syndrome. Spastic paraplegia is a degenerative spinal cord disorder
	characterized by a slow, gradual, progressive weakness and spasticity of the lower limbs.
	Synonym: AD-FSP;atlastin1;FSP1;GBP3;HSN1D;SPG3;SPG3A
Molecular Weight:	77 kDa
NCBI Accession:	NP_056999
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 50 mM Tris, 100 mM NaCl, 0.5 mM PMSF, 0.5 mM EDTA, 0.5 mM
	GSH, pH 8.0
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.
	Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted

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