

Datasheet for ABIN7320147

SPG21 Protein (GST tag,His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	100 µg
Target:	SPG21
Origin:	Mouse
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SPG21 protein is labelled with GST tag,His tag.

Product Details

Purpose:	Recombinant Mouse SPG21 Protein (His & GST Tag)
Sequence:	Met 1-Pro 308
Characteristics:	A DNA sequence encoding the mouse SPG21 isoform 1 (Q9CQC8-1) (Met 1-Pro 308) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.

Target Details

Target:	SPG21
Alternative Name:	SPG21 (SPG21 Products)
Background:	Background: Spastic paraplegia 21 (SPG21), also known as acid Cluster Protein 33 (ACP33) and Mast syndrome protein, is a member of the AB hydrolase superfamily. Human SPG21 is a 308 amino acid residue protein widely expressed in all tissues, including heart, brain, placenta, lung,

Target Details

liver, skeletal muscle, kidney and pancreas. SPG21 binds to the hydrophobic C-terminal amino acids of CD4 which are involved in repression of T cell activation via the noncatalytic alpha/beta hydrolase fold domain. SPG21 thus is proposed to play a role as a negative regulatory factor in CD4-dependent T-cell activation of CD4. Defects in SPG21 are the cause of spastic paraplegia autosomal recessive type 21, also known as Mast syndrome, a neurodegenerative disorder characterized by a slow, gradual, progressive weakness and spasticity of the lower limbs. Rate of progression and the severity of symptoms are quite variable. SPG21 is also associated with dementia and other central nervous system abnormalities.

Synonym: ACP33,BM-019,C78576,D9Wsu18e,GL010,MAST

Molecular Weight:	62.8kDa
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Application Details

Restrictions:	For Research Use only
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Handling

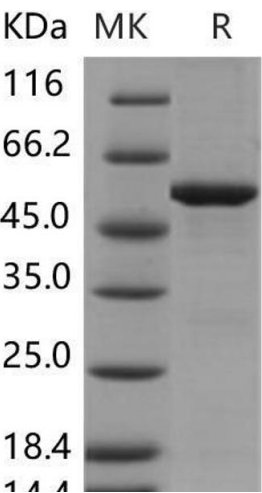
Format:	Lyophilized
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Reconstitution:	Please refer to the printed manual for detailed information.
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Buffer:	Lyophilized from sterile 20 mM Tris, 500 mM NaCl, pH 7.4, 3 mM DTT, 10 % glycerol
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Storage:	4 °C,-20 °C,-80 °C
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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 samples are stable at < -20°C for 3 months.
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Western Blotting

Image 1.