

# Recombinant Human SPG21 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. SPG21-3706H Lot. No. (See product label)

## SPECIFICATION

### Product Overview

SPG21 MS Standard C13 and N15-labeled recombinant protein (NP\_001121361) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

### Species

Human

### Source

HEK293

### Description

The protein encoded by this gene binds to the hydrophobic C-terminal amino acids of CD4 which are involved in repression of T cell activation. The interaction with CD4 is mediated by the noncatalytic alpha/beta hydrolase fold domain of this protein. It is thus proposed that this gene product modulates the stimulatory activity of CD4. Mutations in this gene are associated with autosomal recessive spastic paraplegia 21 (SPG21), also known as mast syndrome. Alternative splicing results in multiple transcript variants.

### Molecular Mass

35 kDa

### AA Sequence

MGEIKVSPDYNWFRGTVPLKKIIVDDDDSKIWSLYDAGPRSIRCPLIFLPPVSGTADV  
 FFRQILALTGWGYRVIALQYPVYWDHLEFCDGFRKLLDHLQLDKVHLFGASLGGFLA  
 QKFAEYTHKSPRVHSLILCNFSFSDTSIFNQWTANSFWLMPAFMLKKIVLGNFSSGP  
 VDPMMADAIDFMVDRLESLGQSELASRLTLNCQNSYVEPHKIRDIPVTIMDVFDQSA  
 LSTEAKEEMYKLYPNARRAHLKTGGNFPYLCRSAEVNLYVQIHLLQFHGTYAAIDP  
 SMVSAEELEVQKGSGLISQEEQTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 3 months from receipt of products under proper storage and handling conditions.
<b>Storage</b>	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
<b>Concentration</b>	50 µg/mL as determined by BCA
<b>Storage Buffer</b>	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

<b>Gene Name</b>	SPG21 SPG21 abhydrolase domain containing, maspardin [ Homo sapiens (human) ]
<b>Official Symbol</b>	SPG21
<b>Synonyms</b>	SPG21; spastic paraplegia 21 (autosomal recessive, Mast syndrome); maspardin; ACP33; BM 019; GL010; MAST; acid cluster protein 33; spastic paraplegia 21 protein; spastic paraplegia 21 autosomal recessive Mast syndrome protein; BM-019; MASPARDIN;
<b>Gene ID</b>	51324
<b>mRNA Refseq</b>	NM_001127889
<b>Protein Refseq</b>	NP_001121361
<b>MIM</b>	608181
<b>UniProt ID</b>	Q9NZD8

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