

For Research Use Only

# SPG21 Polyclonal antibody, PBS Only

Catalog Number:19815-1-PBS



## Basic Information

<b>Catalog Number:</b> 19815-1-PBS	<b>GenBank Accession Number:</b> BC000244	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 51324	
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9NZD8	
<b>Isotype:</b> IgG	<b>Full Name:</b> spastic paraplegia 21 (autosomal recessive, Mast syndrome)	
<b>Immunogen Catalog Number:</b> AG13851	<b>Calculated MW:</b> 308 aa, 35 kDa	
	<b>Observed MW:</b> 35 kDa	

## Applications

**Tested Applications:**  
WB, Indirect ELISA

**Species Specificity:**  
human

## Background Information

SPG21, also known as Maspardin, is a protein encoded by the SPG21 gene on human chromosome 15q22.31. SPG21 is critical for the proper movement and positioning of lysosomes within neurons, which is essential for maintaining axonal health. Mutations in the SPG21 gene underlie hereditary spastic paraplegia (SPG) type 21 (also known as Mast syndrome). This is a complex form of SPG characterized by motor coordination defects due to axonal degeneration of corticospinal neurons and associated with dementia, cerebellar, and extrapyramidal abnormalities and, in some cases, seizures.(PMID: 41400694,PMID: 34492745)

## Storage

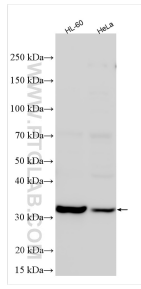
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only, pH7.3

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)      E: proteintech@ptglab.com  
W: ptglab.com

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 19815-1-AP (SPG21 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 19815-1-PBS in a different storage buffer formulation.