For Research Use Only

SPG21 Polyclonal antibody

Catalog Number:19815-1-AP

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Basic Information

Catalog Number:
19815-1-AP

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG13851

GenBank Accession Number:
BC000244

GeneID (NCBI):
51324

UNIPROT ID:
Q9NZD8

Full Name:
spastic paraplegia 21 (autosomal recessive, Mast syndrome)

Calculated MW:
308 aa, 35 kDa

Observed MW:
35 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:500-1:2000

Applications

Tested Applications:
WB, ELISA

Species Specificity:
human

Positive Controls:

WB : HL-60 cells, HeLa cells

Background Information

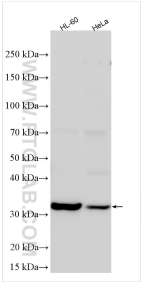
SPG21, also known as Maspardin, is a protein encoded by the SPG21 gene on human chromosome 15q22.31. SPG21 is critical for the proper movement and positioning of lysosomes within neurons, which is essential for maintaining axonal health. Mutations in the SPG21 gene underlie hereditary spastic paraplegia (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 -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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.