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Datasheet for 600-401-ET3

SPG15 Antibody

Overview

Description:	Anti-SPG15 (RABBIT) Antibody - 600-401-ET3
Item No.:	600-401-ET3
Size:	100 µg
Applications:	ELISA, IF, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Hereditary spastic paraplegias (HSPs) are genetically and phenotypically heterogeneous disorders. Spastic paraplegia with thinning of the corpus callosum (ARHSP-TCC) is a relatively frequent form of complicated hereditary spastic paraplegia in which mental retardation and muscle stiffness at onset are followed by slowly progressive paraparesis and cognitive deterioration. SPG15 is the second gene known to be responsible for ARHSP-TCC in the Italian population. Mutations in this gene are associated with autosomal recessive spastic paraplegia-15. SPG15 encodes a protein containing a FYVE zinc finger binding domain which is thought to target these proteins to membrane lipids through interaction with phospholipids in the membrane. SPG15 mRNA is widely distributed in human tissues, as well as in rat embryos, suggesting a possible role for this protein during embryonic development. SPG15 co-localizes partially with endoplasmic reticulum and endosome markers, suggesting a role in intracellular trafficking. Multiple isoforms of SPG15 are known to exist.
Synonyms:	SPG15 Antibody, SPG15, FYVE-CENT, KIAA0321, Zinc finger FYVE domain-containing protein 26, FYVE domain-containing centrosomal protein
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ZFYVE26
Reactivity:	Human, Mouse, Rat

Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-SPG15 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 16 amino acid synthetic peptide near the C-terminus of human SPG15.
Purity/Specificity:	Anti-SPG15 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with SPG15 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q68DK2 • GeneID - 23503 • NCBI - NP_056161.2

Application Details

Tested Applications:	ELISA, IF, WB
Application Note:	Anti-SPG15 Antibody has been tested for use in ELISA, Western Blotting and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 286 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000-1:10,000
IF:	20 µg/ml
WB:	0.5-1 µg/mL

Formulation

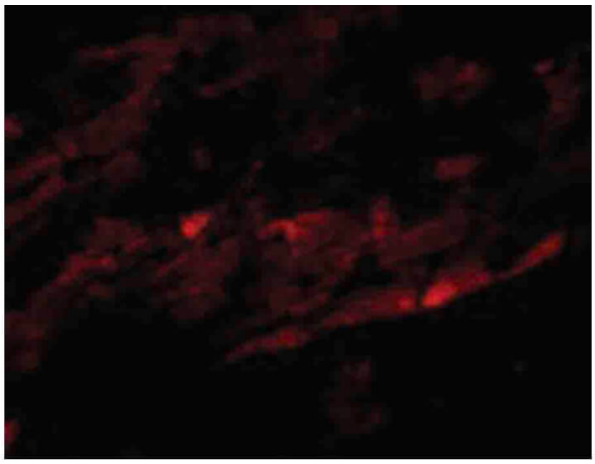
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/ml by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

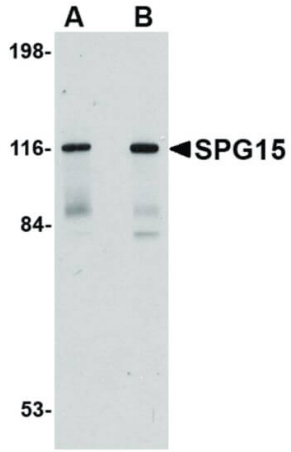
Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Immunofluorescence Microscopy
Immunofluorescence Microscopy of SPG15 antibody. Tissue: Mouse heart cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: SPG15 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: SPG15 is cytoplasmic. Staining: SPG15 as red fluorescent signal.



Western Blot
Western Blot of SPG15 antibody. Lane 1: Rat heart tissue lysate with SPG15 at 0.5 µg/mL. Lane 2: Rat heart tissue lysate with SPG15 at 1 µg/mL. Load: 35 µg per lane. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C.

Disclaimer

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