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Datasheet for 600-401-ET2

SPG11 Antibody

Overview

Description:	Anti-SPG11 (RABBIT) Antibody - 600-401-ET2
Item No.:	600-401-ET2
Size:	100 µg
Applications:	ELISA, IHC, 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 (cHSP) in which mental retardation and muscle stiffness at onset are followed by slowly progressive paraparesis and cognitive deterioration. Mutations of the SPG11 gene encoding the spatacsin protein have been identified as a major cause of HSP-TCC. Spatacsin is a potential transmembrane protein that is phosphorylated upon DNA damage. It is expressed in all structures of the brain, with a high expression in the cerebellum. SPG11 mutations may occur more frequently in familial than sporadic forms of cHSP without TCC. Kjellin syndrome is found to be associated with mutations in not only the SPG15 gene but also SPG11 gene. Recent studies show Parkinsonism may initiate SPG11-linked HSP TCC and that SPG11 may cause juvenile Parkinsonism.
Synonyms:	SPG11 Antibody, KIAA1840, KIAA1840, Spatacsin, Colorectal carcinoma-associated protein
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	SPG11
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-SPG11 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 15 amino acid synthetic peptide near the C-terminus of human SPG11.
Purity/Specificity:	Anti-SPG11 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with SPG11 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q96JI7 • GeneID - 80208 • NCBI - NP_001153699.1

Application Details

Tested Applications:	ELISA, IHC, WB
Application Note:	Anti-SPG11 Antibody has been tested for use in ELISA, Western Blotting, and Immunohistochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 279 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
IHC:	2.5 µg/mL
WB:	.5-1 µg/mL

Formulation

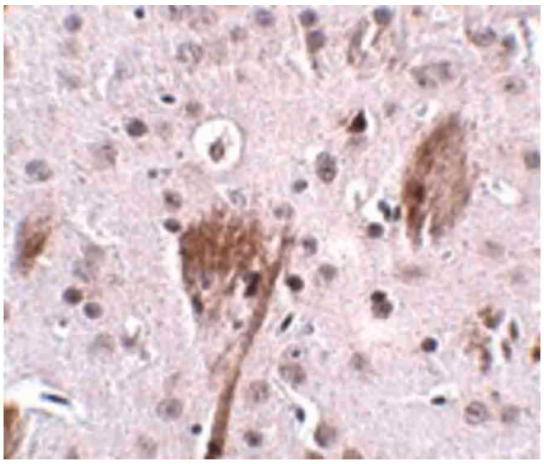
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

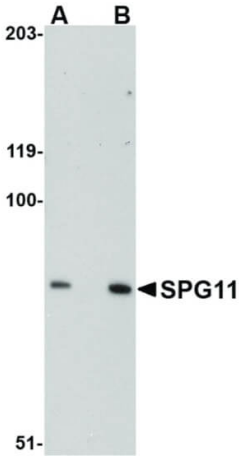
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several 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



Immunohistochemistry
Immunohistochemistry of SPG11 antibody. Tissue: Mouse brain tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: SPG11 antibody at 2.5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: SPG11 is a multi-pass membrane protein Staining: SPG11 as precipitated brown signal with hematoxylin purple nuclear counterstain.



Western Blot
Western Blot of SPG11 anitbody. Lane 1: Mouse heart tissue lysate with SPG11 antibody at 0.5 µg/mL. Lane 2: Mouse heart tissue lysate with SPG11 antibody 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. Predicted/Observed size: 20.7 kDa, 80 kDa for SPG11. Other band(s): none.

Disclaimer

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