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SPG11 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP56778

Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q96JI7
Reactivity	Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	278868
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SPG11
Epitope Specificity	2151-2250/2443
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane. Cytoplasm > cytosol. Nucleus. Mainly cytoplasmic.
SUBUNIT	Interacts with AP5Z1, AP5B1, AP5S1 and ZFYVE26.
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR.
DISEASE	Defects in SPG11 are the cause of spastic paraplegia autosomal recessive type 11 (SPG11) [MIM:604360]. Spastic paraplegia is a neurodegenerative disorder characterized by a slow, gradual, progressive weakness and spasticity of the lower limbs. Rate of progression and the severity of symptoms are quite variable. Initial symptoms may include difficulty with balance, weakness and stiffness in the legs, muscle spasms, and dragging the toes when walking. In some forms of the disorder, bladder symptoms (such as incontinence) may appear, or the weakness and stiffness may spread to other parts of the body.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene is a potential transmembrane protein that is phosphorylated upon DNA damage. Defects in this gene are a cause of spastic paraplegia type 11 (SPG11). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2009]

Additional Information

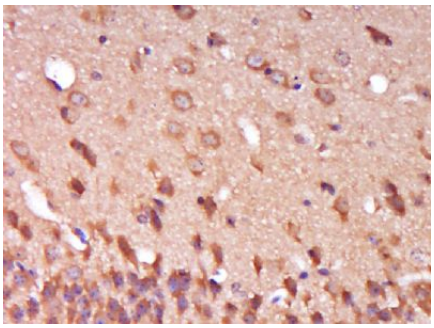
Gene ID	80208
Other Names	Spatacsin, Colorectal carcinoma-associated protein, Spastic paraplegia 11 protein, SPG11, KIAA1840
Target/Specificity	Expressed in all structures of brain, with a high expression in cerebellum.

Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

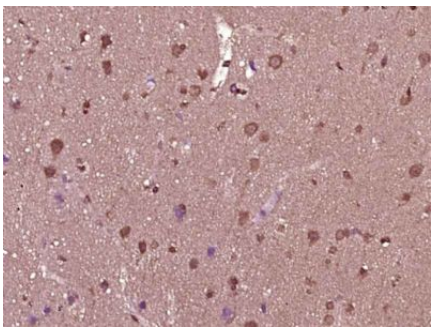
Protein Information

Name	SPG11
Synonyms	KIAA1840
Function	May play a role in neurite plasticity by maintaining cytoskeleton stability and regulating synaptic vesicle transport.
Cellular Location	Cytoplasm, cytosol. Nucleus. Cell projection, axon. Cell projection, dendrite. Note=Mainly cytoplasmic
Tissue Location	Expressed in all structures of brain, with a high expression in cerebellum. Expressed in cortical projection neurons

Images



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SPG11) Polyclonal Antibody, Unconjugated (AP56778) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human brain glioma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SPG11) Polyclonal Antibody, Unconjugated (AP56778) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.