SPG7 Polyclonal Antibody

Catalog No	BYab-07314
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;ELISA
Gene Name	SPG7 CAR CMAR PGN
Protein Name	Paraplegin (EC 3.4.24.-) (Spastic paraplegia 7 protein)
Immunogen	Synthesized peptide derived from human protein . at AA range: 71-120
Specificity	SPG7 Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	87kD
Cell Pathway	Mitochondrion inner membrane ; Multi-pass membrane protein .
Tissue Specificity	Ubiquitous.
Function	caution:A CDS in the 3'-UTR of SPG7 mRNA had been erroneously identified as a cell matrix adhesion regulator and originally thought to be encoded by the CMAR gene. There is no experimental evidence for the production of endogenous CMAR protein.,disease:Defects in SPG7 are the cause of spastic paraplegia autosomal recessive type 7 (SPG7) [MIM:607259]. Spastic paraplegia is a degenerative spinal cord disorder characterized by a slow, gradual, progressive weakness and spasticity of the lower limbs. SPG7 is a complex form. Additional clinical features are cerebellar syndrome, supranuclear palsy, and cognitive impairment, particularly disturbance of attention and executive functions.,function:Putative ATP-dependent protease.,sequence caution:Translated as Glu.,similarity:In the C-terminal section; belongs to the peptidase M41 family.,similarity:In the N-terminal section; belongs to the AAA AT

Background	This gene encodes a mitochondrial metalloprotease protein that is a member of the AAA family. Members of this protein family share an ATPase domain and have roles in diverse cellular processes including membrane trafficking, intracellular motility, organelle biogenesis, protein folding, and proteolysis. Mutations in this gene cause autosomal recessive spastic paraplegia 7. Two transcript variants encoding distinct isoforms have been identified. [provided by RefSeq, Mar 2014],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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