

## Product datasheet for **TA504415AM**

### SPG7 Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI1G4]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1G4
Applications:	IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:150
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 300-573 of human SPG7(NP_003110) produced in E.coli.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Biotin
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	88.1 kDa
Gene Name:	SPG7 matrix AAA peptidase subunit, paraplegin
Database Link:	<a href="#">NP_003110</a> <a href="#">Entrez Gene 234847</a> <a href="#">MouseEntrez Gene 353231</a> <a href="#">RatEntrez Gene 6687</a> <a href="#">Human Q9UQ90</a>



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**Background:**

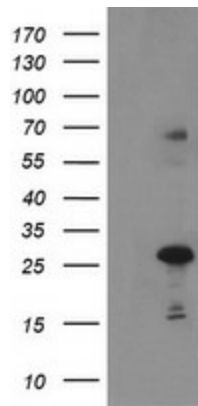
This gene encodes a nuclear-encoded mitochondrial metalloprotease protein that is a member of the AAA (ATPases associated with a variety of cellular activities) protein family. Members of this protein family share an ATPase domain and have roles in diverse cellular processes including membrane trafficking, intracellular motility, organelle biogenesis, protein folding, and proteolysis. Two transcript variants encoding distinct isoforms have been identified for this gene. Mutations associated with this gene cause autosomal recessive spastic paraplegia 7. [provided by RefSeq, Jul 2008]

**Synonyms:**

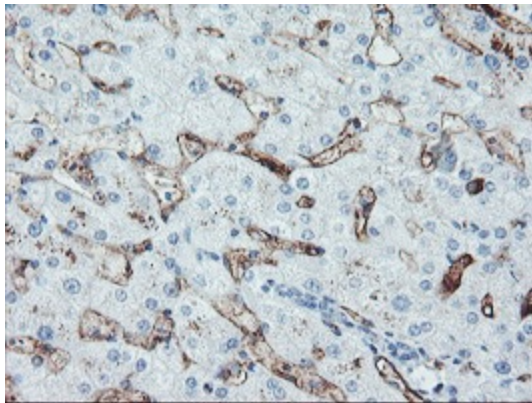
CAR; CMAR; PGN; SPG5C

**Protein Families:**

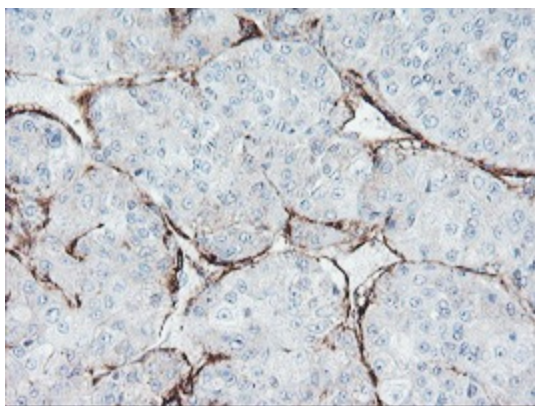
Protease, Transmembrane

**Product images:**

Negative control E. coli lysate (Left lane) or E. coli lysate containing recombinant protein fragment for human SPG7 (NP\_003110) gene (amino acids 300-573) (Right lane). Equivalent amounts (5 ug per lane) were separated by SDS-PAGE and then immunoblotted with anti-SPG7.



Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-SPG7 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA504415])



Immunohistochemical staining of paraffin-embedded Carcinoma of Human liver tissue using anti-SPG7 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA504415])