

Recombinant Full Length Human SPG7 Protein, GST-tagged

Cat. No. SPG7-30666TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human SPG7 full-length ORF (NP_003110.1, 1 a.a. - 795 a.a.) recombinant protein with GST-tag at N-terminal was expressed in wheat germ.
Species	Human
Source	Wheat Germ
ProteinLength	1-795 a.a.
Description	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.
Molecular Mass	114.6 kDa
AA Sequence	MAVLLLLLRALRRGPGPGPRPLWGPSPAUSPGFPAAPGRGRPYMASRPPGDLAE AGGRALQSLQLRLLTPTFEGINGLLLKQHLVQNPVRLWQLLGGTFYFNTSRLKQKNK EKDKSKGKAPEEDEEERRRRERDDQMYRERLRTLLVIAVMSLLNALSTSGGSISW NDFVHEMLAKGEVQVRVQVPESDVVEVYLHPGAVVFGPRRLALMYRMQVANIDKF EEKLRAAEDELNIEAKDRIPVSYKRTGFFGNALYSVGMTAVGLAILWYVFRLAGMTG REGGFSAFNQLKMARFTIVDGKMGKGVSFKDVAGMHEAKLEVREFVDYLKSPERFL QLGAKVPKGALLLGPPGCGKTLLAKAVATEAQVPFLAMAGPEFVEVIGGLGAARVR

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SLFKEARARAPCIVYIDEIDAVGKKRSTTMSGFSNTEEEQTLNQLLVEMDGMGTTDH
 VIVLASTNRADILDGALMRPGRDLRHVFIDLPTLQERREIFEQHLKSLKLTQSSTFYSSQ
 RLAEITPGFSGADIANICNEAALHAAREGHTSVHTLNFEYAVERVLAGTAKKSKILSK
 EEQKVVAFHESGHALVGWMLEHTEAVMKVSITPRNAALGFAQMLPRDQHLFTKEQ
 LFERMCMALGGRASEALSFNEVTSGAQDDLKRVTRIAYSMVKQFGMAPGIGPISFP
 EAQEGLMGIGRRPFSQGLQQMMDHEARLLVAKAYRHTEKVLQDNLDKLQALANALL
 EKEVINYEDIEALIGPPPHGPKKMIAPQRWIDAQREKQDLGEEETEETQQPPLGGEE
 PTWPK

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

SPG7 SPG7, paraplegin matrix AAA peptidase subunit [Homo sapiens (human)]

Official Symbol

SPG7

Synonyms

SPG7; SPG7, paraplegin matrix AAA peptidase subunit; CAR; PGN; CMAR; SPG5C;
 paraplegin; cell matrix adhesion regulator; paraplegin, isoform 1; spastic paraplegia 7
 (pure and complicated autosomal recessive); spastic paraplegia 7 protein

Gene ID

6687

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mRNA Refseq	NM_003119
Protein Refseq	NP_003110
MIM	602783
UniProt ID	Q9UQ90
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.

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