

Recombinant Full Length Human SPG7 Protein, GST-tagged

Cat. No. SPG7-490HF **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	In Vitro Cell Free System
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	MAVLLLLLLRA LRRGPGPGPR PLWGPGPAWS PGFPARPGRG RPYMASRPPG DLAEAGGRAL QSLQLRLLTP TFEGINGLLL KQHLVQNPVR LWQLLGGTFY FNTSRLKQKN KEKDKSKGKA PEEDEEERRR RERDDQMYRE RLRTLLVIAV VMSLLNALST SGGISWVNDV VHEMLAKGEV QRVQVVPESD VVEVYLHPGA VVFGRPRLAL MYRMQVANID KFEEKLRAAE DELNIEAKDR IPVSYKRTGF FGNALYSVGM TAVGLAILWY VFRLAGMTGR EGGFSAFNQL KMARFTIVDG KMGKGVSKFD VAGMHEAKLE VREFVDYLKS PERFLQLGAK VPKGALLLGP

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PGCGKTLLAK AVATEAQVPF LAMAGPEFVE VIGGLGAARV RSLFKEARAR
 APCIVYIDEI DAVGKKRSTT MSGFSNTEEE QTLNQLLVEM DGMGTTDHVI
 VLASTNRADI LDGALMRPGR LDRHVFIDLP TLQERREIFE QHLKSLKLTQ
 SSTFYSQRLA ELTPGFSGAD IANICNEAAL HAAREGHTSV HTLNFEYAVE
 RVLAGTAKKS KILSKEEQKV VAFHESGHAL VGWMLEHTEA VMKVSITPRT
 NAALGFAQML PRDQHIFTKE QLFERMCMAL GGRASEALSF NEVTSGAQDD
 LRKVTRIAYS MVKQFGMAPG IGPISFPEAQ EGLMGIGRRP FSQGLQQMMD
 HEARLLVAKA YRHTEKVLQD NLDKLQALAN ALLEKEVINY EDIEALIGPP
 PHGPKKMIAP QRWIDAQREK QDLGEEETEE TQQPPLGGEE PTWPK

Applications

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

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

mRNA Refseq

NM_003119

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Protein Refseq	NP_003110
MIM	602783
UniProt ID	Q9UQ90

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