

Recombinant Human SPAG6 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. SPAG6-537H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	SPAG6 MS Standard C13 and N15-labeled recombinant protein (NP_758442) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The correlation of anti-sperm antibodies with cases of unexplained infertility implicates a role for these antibodies in blocking fertilization. Improved diagnosis and treatment of immunologic infertility, as well as identification of proteins for targeted contraception, are dependent on the identification and characterization of relevant sperm antigens. The protein expressed by this gene is recognized by anti-sperm antibodies from an infertile man. This protein localizes to the tail of permeabilized human sperm and contains eight contiguous armadillo repeats, a motif known to mediate protein-protein interactions. Studies in mice suggest that this protein is involved in sperm flagellar motility and maintenance of the structural integrity of mature sperm. Several transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	49.6 kDa
AA Sequence	MSQRQVLQVFEQYQKARTQFVQMVAELATRPQNIETLQNAGVMSLLRTLLEDVVPTI QQIAALALGRLANYNDLAEAVVKCDILPQLVYSLAEQNRFYKAAAFVLRAVGKHS

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PQLAQAI VDCGALDTLVICLED FDPGVKEAAAWALRYIARHNAELSQAVVDAGAVPL
 LVLCIQEPEIALKGIAASALSDIVKHSPELAQT VVDAGAVAHLAQMILNPDAKLKHQILS
 ALSQVSKHSVDLAEMVVEAEIFPVVLTCLKDKDEYVKKNASTLIREIAKHTPELSQLVV
 NAGGVAAVIDCIGSCKGNTRLPGIMMLGYVAAHSENLAMAVIISKGV PQLSVCLSEEP
 EDHIKAAA AWALGQIGRHTPEHARAVAVTNTLPVLLSLYMSTESSEDLQVKS KKA IKN
 ILQKCTYLPALPFLYDAPPNILKHVVGGQFSKVLFPWIFRYTSAEGGQLSTTTTRPL
 EQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name SPAG6 sperm associated antigen 6 [Homo sapiens (human)]

Official Symbol SPAG6

Synonyms SPAG6; sperm associated antigen 6; sperm-associated antigen 6; axoneme central apparatus protein; pf16; Repro SA 1; protein PF16 homolog; sperm flagellar protein; Repro-SA-1; MGC26276; DKFZp434I153;

Gene ID 9576

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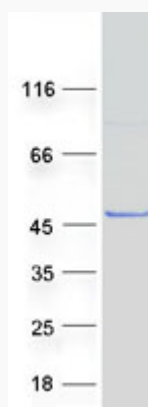
mRNA Refseq [NM_172242](#)

Protein Refseq [NP_758442](#)

MIM [605730](#)

UniProt ID [O75602](#)

SDS-PAGE



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