

Recombinant Human SPAG1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. SPAG1-6726H Lot. No. (See product label)

SPECIFICATION

Product Overview	SPAG1 MS Standard C13 and N15-labeled recombinant protein (NP_003105) 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 agglutinating antibodies from an infertile woman. Furthermore, immunization of female rats with the recombinant human protein reduced fertility. This protein localizes to the plasma membrane of germ cells in the testis and to the post-acrosomal plasma membrane of mature spermatozoa. Recombinant polypeptide binds GTP and exhibits GTPase activity. Thus, this protein may regulate GTP signal transduction pathways involved in spermatogenesis and fertilization. Two transcript variants of this gene encode the same protein.
Molecular Mass	103.5 kDa
AA Sequence	MTTKDYP SLWGF GTTKTFK IPIEHLDFKYIEK CSDVKHLEKILCVLRS GEEGYYPEL TE

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FCEKHLQALAPESRALRKDKPAATAASFTAEEWEKIDGDIKSWVSEIKKEEDKMHFH
 ETETFPAMKDNLPPVRGSNSCLHVGKEKYSKRPTKKKTPRDYAEWDKFDVEKECLK
 IDEDYKEKTVIDKSHLSKIETRIDTAGLTEKEKDFLATREKEKGNEAFNSGDYEEAVM
 YYTRSISALPTVVAYNNRAQAEIKLQNWNSAFQDCEKVLELEPGNVKALLRRATTYK
 HQNKLREATEDLSKVLDPDNDLAKKTLSEVERDLKNSEAASETQTKGKRMVIQEI
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 PARGAPQRGQTPEAGADKRSPRRASAAAAAGGGATGHPGGGQGAENPAGLKSQ
 GNELFRSGQFAEAAGKYSAIALLEPAGSEIADDLSILYSNRAACYLKEGNCSGCIQD
 CNRALELHPFSMKPLLRAMAYETLEQYGKAYVDYKTVLQIDCGLQLANDSVNRLS
 RILMELDGNWREKLSPIPAVPASVPLQAWHPAKEMISKQAGDSSSHRQQGITDEK
 TFKALKEEGNQC VNDKNYKDALSKYSECLKINNKECAIYTNRALCYLKLCQFEEAKQ
 DCDQALQLADGNVKAFYRRALAHKGLKNYQKSLIDLNKVILLDPSIIEAKMELEEVTRL
 LNLKDKTAPFNKEKERRKIEIQEVNEGKEEPGRPAGEVSMGCLASEKGGKSSRSPE
 DPEKLPKPNNAAYEFGQIINALSTRKDKEACAHLLAITAPKDLPMFLSNKLEGDTFLL
 LIQSLKNNLIEKDP SLVYQHLLYLSKAERFKMMLTLISKGQKELIEQLFEDLSDTPNNH
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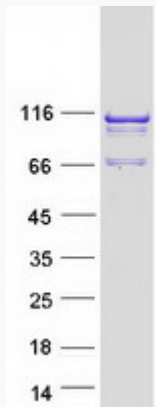
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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Gene Name	SPAG1 sperm associated antigen 1 [Homo sapiens (human)]
Official Symbol	SPAG1
Synonyms	SPAG1; sperm associated antigen 1; SP75; TPIS; CT140; CILD28; HSD-3.8; HEL-S-268; sperm-associated antigen 1; TPR-containing protein involved in spermatogenesis; epididymis secretory protein Li 268; infertility-related sperm protein Spag-1; tetratricopeptide repeat-containing protein
Gene ID	6674
mRNA Refseq	NM_003114
Protein Refseq	NP_003105
MIM	603395
UniProt ID	Q07617
SDS-PAGE	

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