

Recombinant Human SPAG1 protein, His & T7-tagged

Cat. No. SPAG1-8123H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SPAG1 aa. (Met1~Lys365 (Accession # Q07617)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Met1~Lys365
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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 45.6kDa

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Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 5.5.
Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	SPAG1 sperm associated antigen 1 [Homo sapiens (human)]
Official Symbol	SPAG1
Synonyms	SP75; TPIS; CT140; CILD28; HSD-3.8; HEL-S-268; TPR-containing protein involved in spermatogenesis; epididymis secretory protein Li 268; infertility-related sperm protein Spag-1; tetratricopeptide repeat-containing protein; sperm-associated antigen

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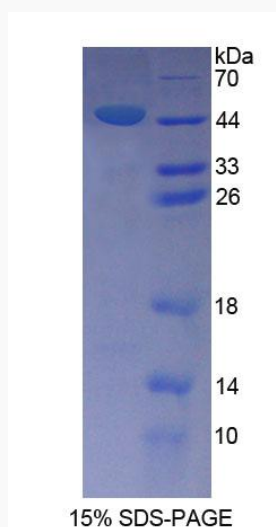
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Gene ID	6674
mRNA Refseq	NM_003114.4
Protein Refseq	NP_003105.2
UniProt ID	Q07617

SDS-PAGE



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