

Recombinant Human SPAG1 Protein, MYC/DDK-tagged

Cat. No. SPAG1-2506H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human SPAG1 protein, fused to MYC/DDK-tagged at C-terminus, was expressed in HEK293.

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.

Form 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

Molecular Mass 103.5 kDa

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

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Concentration >50 ug/mL as determined by microplate BCA method

GENE INFORMATION

Gene Name SPAG1 sperm associated antigen 1 [Homo sapiens]

Official Symbol SPAG1

Synonyms CILD28; CT140; HEL-S-268; HSD-3.8; SP75; TPIS

Gene ID 6674

mRNA Refseq NM_003114.4

Protein Refseq NP_003105.2

MIM 603395

UniProt ID Q07617

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