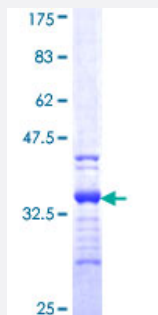


SPAG1 (Human) Recombinant Protein (Q01)

Catalog # H00006674-Q01

Size 10 ug, 25 ug

Applications



Specification

Product Description	Human SPAG1 partial ORF (NP_003105, 175 a.a. - 283 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	EDYKEKTVIDKSHLSKIETRIDTAGLTEKEKDFLATREKEKGNEAFNSGDYEEAVMYYTRSISALPT VVAYNNRAQAEIKLQNWNSAFQDCEKVLLEPGNVKALLRRA
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	37.73
Interspecies Antigen Sequence	Mouse (84); Rat (85)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — SPAG1

Entrez GeneID [6674](#)

GeneBank Accession# [NM_003114](#)

Protein Accession# [NP_003105](#)

Gene Name SPAG1

Gene Alias FLJ32920, HSD-3.8, SP75, TPIS

Gene Description sperm associated antigen 1

Omim ID [603395](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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. [provided by RefSeq]

Other Designations

TPR-containing protein involved in spermatogenesis|infertility-related sperm protein|tetratricopeptide repeat-containing protein