SPAG1 Peptide - C-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	SPAG1, Blocking Peptide
Full Product Name	SPAG1 Peptide - C-terminal region
Product Gene Name	SPAG1 blocking peptide
Product Synonym Gene Name	FLJ32920; HSD-3.8; SP75; TPIS
Sequence	KIEIQEVNEG KEEPGRPAGE VSMGCLASEK GGKSSRSPED PEKLPIAKPN
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	SPAG1 peptide (MBS3241778) is used for blocking the activity of SPAG1 antibody (MBS3216879)
Molecular Weight	104kDa
OMIM	gene 615505
Product Categories/Family for SPAG1 blocking peptide	Peptide
Applications Tested/Suitable for SPAG1 blocking peptide	Western Blot (WB)
Related Product Information for SPAG1 blocking peptide	This is a synthetic peptide designed for use in combination with anti-SPAG1 Antibody, made Target Description: The correlation of anti-sperm antibodies with cases of unexplained infertility implicates a role for these antibodies in blocking fertilization. Improved identification 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.
Other Notes	Small volumes of SPAG1 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SPAG1 purchase	MBS3241778 is a blocking peptide targeting SPAG1. Also known as SPAG1 Peptide - C-terminal region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SPAG1. It may not necessarily be applicable to this product.

NCBI GI #	27262636
NCBI GeneID	6674
NCBI Accession #	NP_003105
UniProt Primary Accession #	Q07617

UniProt Related Accession #	Q07617
GenBank Nucleotide #	NM_003114
NCBI Official Full Name	sperm-associated antigen 1
NCBI Official Synonym Full Names	sperm associated antigen 1
NCBI Official Symbol	SPAG1
NCBI Official Synonym Symbols	SP75; TPIS; CT140; CILD28; HSD-3.8; HEL-S-268
UniProt Protein Name	Sperm-associated antigen 1
UniProt Synonym Protein Names	HSD-3.8; Infertility-related sperm protein Spag-1
Protein Family	Sperm-associated antigen
UniProt Gene Name	SPAG1
UniProt Entry Name	SPAG1_HUMAN
NCBI Protein Information	sperm-associated antigen 1
NCBI Summary for SPAG1	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, Jul 2008]
UniProt Comments for SPAG1	SPAG1: Plays a role in fertilization. Binds GTP and has GTPase activity. Protein type: Cancer Testis Antigen (CTA); Microtubule-binding Chromosomal Location of Human Ortholog: 8q22.2 Cellular Component: nucleoplasm; microtubule cytoskeleton; cytoplasm Molecular Function: GTP binding; hydrolase activity Biological Process: metabolic process; single fertilization Disease: Ciliary Dyskinesia, Primary, 28
Research Articles on SPAG1	**1.** SPAG1 probably plays a role in the cytoplasmic assembly.
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