SPAG8 Antibody (C-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	SPAG8, Blocking Peptide
Full Product Name	SPAG8 Antibody (C-term) Blocking peptide
Product Gene Name	SPAG8 blocking peptide
Product Synonym Names	Sperm-associated antigen 8; HSD-1; Sperm membrane protein 1; SMP-1; Sperm membrane protein BS-84; SPAG8
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	SPAG8 peptide (MBS9219435) is used for blocking the activity of SPAG8 antibody (MBS9206676)
Molecular Weight	51,139 Da
OMIM	605731
Cellular Location	Cytoplasmic vesicle, secretory vesicle, acrosome. Note: Acrosomal region of the head of mature sperm cells
Tissue Location	Expressed in testis (germ cells), but not in liver, kidney, prostate and small intestine
Related Product Information for SPAG8 blocking peptide	May play a role in fertility and microtubule formation through interaction with RANBP9.
Other Notes	Small volumes of SPAG8 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 SPAG8 purchase	MBS9219435 is a blocking peptide targeting SPAG8. Also known as SPAG8 Antibody (C-term) Blocking peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SPAG8. It may not necessarily be applicable to this product.

NCBI GI #	62511128
NCBI GeneID	26206
NCBI Accession #	Q99932.2
UniProt Primary Accession #	Q99932
UniProt Secondary Accession #	Q12937; Q5TCV8; Q8WWB4; B4DY89; E9PDV6
UniProt Related Accession #	Q99932
NCBI Official Full Name	Sperm-associated antigen 8
NCBI Official Synonym Full Names	sperm associated antigen 8
NCBI Official Symbol	SPAG8
NCBI Official Synonym Symbols	SMP1; BS-84; CT142; HSD-1; SPAG3; CILD28; hSMP-1
UniProt Protein Name	Sperm-associated antigen 8
UniProt Synonym Protein Names	HSD-1; Sperm membrane protein 1; SMP-1; Sperm membrane protein BS-84
Protein Family	Sperm-associated antigen

UniProt Gene Name	SPAG8
UniProt Synonym Gene Names	SMP-1
UniProt Entry Name	SPAG8_HUMAN
NCBI Protein Information	sperm-associated antigen 8
NCBI Summary for SPAG8	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 encoded by this gene is recognized by sperm agglutinating antibodies from an infertile woman. This protein is localized in germ cells of the testis at all stages of spermatogenesis and is localized to the acrosomal region of mature spermatozoa. This protein interacts with ACT (activator of CREM in testis) and may play a role in CREM (cAMP response element modulator)-ACT-mediated gene transcription during spermatogenesis. This protein may also play a role in spermatogenesis by regulating microtubule formation and cell division. Alternatively spliced variants that encode different protein isoforms have been described but the full-length sequences of only two have been determined. [provided by RefSeq, Jul 2012]
UniProt Comments for SPAG8	SPAG8: May play a role in fertility and microtubule formation through interaction with RANBP9. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Cancer Testis Antigen (CTA) Chromosomal Location of Human Ortholog: 9p13.3 Cellular Component: cytoplasm; nucleus Molecular Function: protein binding Biological Process: positive regulation of transcription from RNA polymerase II promoter
Research Articles on SPAG8	**1.** Results indicate that SPAG8 acts as a regulator of ACT and plays an important role in CREM-ACT-mediated gene transcription during spermatogenesis.
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