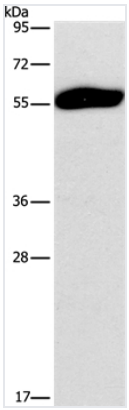
SPAG6 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SPAG6, Polyclonal Antibody
Full Product Name	SPAG6 Antibody
Product Gene Name	anti-SPAG6 antibody
Product Synonym Names	pf16; Repro-SA-1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Rabbit IgG in pH7.3 PBS, 0.05% NaN3, 50% Glycerol.
Purity/Purification	Antigen affinity purification.
Concentration	0.8 mg/ml (lot specific)
Specificity	The antibody detects endogenous levels of total SPAG6 protein.
Preparation and Storage	Store at -20 degree C
Molecular Weight	52,466 Da
OMIM	605730
3D Structure	ModBase 3D Structure for O75602
Immunogen Type	Peptide
Immunogen Description	Synthetic peptide corresponding to residues near the N terminal of human sperm associated antigen 6
Target Name	SPAG6
Product Categories/Family for anti-SPAG6 antibody	Total protein Ab
Applications Tested/Suitable for anti-SPAG6 antibody	Western Blot (WB)
Application Notes for anti-SPAG6 antibody	Western blotting: 1:200-1:1000
Related Product Information for anti-SPAG6 antibody	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 antibodies from an infertile man. This protein localizes to the tail of permeabilized human sperm and contains eight contiguous armadillo repeats, a motif known to mediate protein-protein interactions. Studies in mice suggest that this protein is involved in sperm flagellar motility and maintenance of the structural integrity of mature sperm.
Other Notes	Small volumes of anti-SPAG6 antibody 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 SPAG6 purchase	MBS9408731 is an antibody targeting SPAG6. Also known as SPAG6 Antibody. Reactive in Human, Mouse. Host: Rabbit.



Testing Data of anti-SPAG6 antibody
Gel: 8%SDS-PAGE Lysates (from left to right): Human testis tissue Amount of lysate: 40ug per lane Primary antibody: 1/200 dilution Secondary antibody dilution: 1/8000 Exposure time: 10 minutes

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SPAG6. It may not necessarily be applicable to this product.

NCBI GI #	359718953
NCBI GeneID	9576
NCBI Accession #	NP_001240783.1
UniProt Primary Accession #	O75602
UniProt Secondary Accession #	Q5VUX5; Q5VUX6; Q5VUX7; Q6FI74; Q8NHQ6; A8K1I8; B4DXZ4
UniProt Related Accession #	O75602
GenBank Nucleotide #	NM_001253854.1
NCBI Official Full Name	sperm-associated antigen 6 isoform 3
NCBI Official Synonym Full Names	sperm associated antigen 6
NCBI Official Symbol	SPAG6
NCBI Official Synonym Symbols	pf16; CT141; Repro-SA-1
UniProt Protein Name	Sperm-associated antigen 6
UniProt Synonym Protein Names	Protein PF16 homolog; Repro-SA-1; Sperm flagellar protein
Protein Family	Sperm-associated antigen
UniProt Gene Name	SPAG6
UniProt Synonym Gene Names	PF16
UniProt Entry Name	SPAG6_HUMAN
NCBI Protein Information	sperm-associated antigen 6
NCBI Summary for SPAG6	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 antibodies from an infertile man. This protein localizes to the tail of permeabilized human sperm and contains eight contiguous armadillo repeats, a motif known to mediate protein-protein interactions. Studies in mice suggest that this protein is involved in sperm flagellar motility and maintenance of the structural integrity of mature sperm. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]

UniProt Comments for SPAG6	SPAG6: Important for structural integrity of the central apparatus in the sperm tail and for flagellar motility. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Cell development/differentiation; Cancer Testis Antigen (CTA) Chromosomal Location of Human Ortholog: 10p12.2 Cellular Component: microtubule cytoskeleton; microtubule; axoneme; nucleus Biological Process: cell projection organization and biogenesis; spermatid development
Research Articles on SPAG6	**1.** These findings demonstrate that SPAG6 might have a role in malignant myeloid hematologic cell proliferation and apoptosis by regulating caspase proteins and p53, suggesting that SPAG6 may be a potential therapeutic target.
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