

**SPAG1 Antibody (N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP5699a****Specification****SPAG1 Antibody (N-term) Blocking peptide -  
Product Information**

Primary Accession [Q07617](#)  
Other Accession [NP\\_003105.2](#)

**SPAG1 Antibody (N-term) Blocking peptide -  
Additional Information**

**Gene ID** 6674

**Other Names**

Sperm-associated antigen 1, HSD-38,  
Infertility-related sperm protein Spag-1,  
SPAG1

**Format**

Peptides are lyophilized in a solid powder  
format. Peptides can be reconstituted in  
solution using the appropriate buffer as  
needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6  
months. For long term storage store at  
-20°C.

**Precautions**

This product is for research use only. Not  
for use in diagnostic or therapeutic  
procedures.

**SPAG1 Antibody (N-term) Blocking peptide -  
Protein Information**

**Name** SPAG1

**Function**

May play a role in the cytoplasmic assembly  
of the ciliary dynein arms (By similarity).  
May play a role in fertilization. Binds GTP  
and has GTPase activity.

**Cellular Location**

Cytoplasm. Dynein axonemal particle  
Note=Colocalizes with tubulin

**SPAG1 Antibody (N-term) Blocking  
peptide - Background**

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].

**SPAG1 Antibody (N-term) Blocking  
peptide - References**

Lin, W., et al. Mol. Hum. Reprod.  
7(9):811-818(2001) Diekman, A.B., et al. Am. J.  
Reprod. Immunol. 37(1):111-117(1997) Zhang,  
M.L., et al. Chin. Med. J.  
105(12):998-1003(1992)

**Tissue Location**

Present in most tissues, including lung, with the strongest expression in brain, colon, kidney, and testis. In sperm and testis, detected in particular in pachytene primary spermatocytes. Up- regulated in pancreatic tumor tissues and not in normal pancreatic tissue.

**SPAG1 Antibody (N-term) Blocking peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)