

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

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](#)

SPAG1 Antibody (N-term) Blocking peptide - Images

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)