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Datasheet for ABIN2786289

anti-SPAG8 antibody (N-Term)

1 Image

1 Publication

Overview

Quantity:	100 µL
Target:	SPAG8
Binding Specificity:	N-Term
Reactivity:	Human, Rabbit, Saccharomyces cerevisiae
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SPAG8 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human SPAG8
Sequence:	SGPVLGSSSG AGHGSGSGSG PGCGSVPGSG SGPVPGSGPG SGPVHGSGSH
Predicted Reactivity:	Human: 100%, Rabbit: 86%, Yeast: 93%
Characteristics:	This is a rabbit polyclonal antibody against SPAG8. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	SPAG8
Alternative Name:	SPAG8 (SPAG8 Products)

Target Details

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. SPAG8 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. 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. Alternatively spliced variants that encode different protein isoforms have been described but the full-length sequences of only two have been determined.

Alias Symbols: BS-84, HSD-1, MGC26201, SMP1, SPAG3, hSMP-1

Protein Interaction Partner: KLHL32, DTX2, SNRPC, CSTF2, PITX1, JMJD4, WHSC1L1, KDM3B, CARM1, PRMT5, PRMT1, PRMT2, RANBP9, UBQLN4, NEDD4L, RAN,

Protein Size: 501

Molecular Weight: 53 kDa

Gene ID: 26206

NCBI Accession: [NM_172312](#), [NP_758516](#)

UniProt: [Q99932](#)

Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

Comment: Antigen size: 501 AA

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: Lot specific

Handling

Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

Product cited in:	Schauer, Freund, Prenni, Curthoys: "Proteomic profiling and pathway analysis of the response of rat renal proximal convoluted tubules to metabolic acidosis." in: American journal of physiology. Renal physiology , Vol. 305, Issue 5, pp. F628-40, (2013) (PubMed).
	Freund, Prenni, Curthoys: "Response of the mitochondrial proteome of rat renal proximal convoluted tubules to chronic metabolic acidosis." in: American journal of physiology. Renal physiology , Vol. 304, Issue 2, pp. F145-55, (2013) (PubMed).

Images



Western Blotting

Image 1. WB Suggested Anti-SPAG8 Antibody Titration:

0.2-1 ug/ml

ELISA Titer: 1:312500

Positive Control: Human Liver