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SPACA1 Rabbit pAb

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Catalog # AP56760

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9HBV2
Predicted	Rat, Dog, Human, Mouse, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	32143
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SPACA1
Epitope Specificity	51-150/294
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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 infertile males. Furthermore, antibodies generated against the recombinant protein block in vitro fertilization. This protein localizes to the acrosomal membrane of spermatids and mature spermatozoa where it is thought to play a role in acrosomal morphogenesis and in sperm-egg binding and fusion, respectively. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	81833
Other Names	Sperm acrosome membrane-associated protein 1, Sperm acrosomal membrane-associated protein 32, SPACA1, SAMP32
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	SPACA1
Synonyms	SAMP32
Function	Plays a role in acrosome formation and establishment of normal sperm morphology during spermatogenesis (PubMed:34172998). Important for male fertility (PubMed:11870081).
Cellular Location	Cytoplasmic vesicle, secretory vesicle, acrosome inner membrane; Single-pass type I membrane protein. Note=Primarily found in the equatorial segment of the acrosome (PubMed:11870081). The tyrosine phosphorylated protein localizes to a smaller region within the equatorial segment (By similarity). Also expressed weakly in the principal segment (PubMed:11870081). {ECO:0000250|UniProtKB:D5K8A9, ECO:0000269|PubMed:11870081}
Tissue Location	Testis specific..

Background

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