

# SPACA1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP56760

## Product Information

---

<b>Application</b>	IHC-P, IHC-F, IF, ICC, E
<b>Primary Accession</b>	<a href="#">Q9HBV2</a>
<b>Reactivity</b>	Rat, Dog
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	32143
<b>Physical State</b>	Liquid
<b>Immunogen</b>	KLH conjugated synthetic peptide derived from human SPACA1
<b>Epitope Specificity</b>	51-150/294
<b>Isotype</b>	IgG
<b>Purity</b>	affinity purified by Protein A
<b>Buffer</b>	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
<b>SUBCELLULAR LOCATION</b>	Membrane.
<b>Important Note</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>Background Descriptions</b>	<p>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.</p> <p>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]</p>

## Additional Information

---

<b>Gene ID</b>	81833
<b>Other Names</b>	Sperm acrosome membrane-associated protein 1, Sperm acrosomal membrane-associated protein 32, SPACA1, SAMP32
<b>Target/Specificity</b>	Testis specific. At the equatorial segment and the inner acrosomal membrane of capacitated sperm.
<b>Dilution</b>	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
<b>Format</b>	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce

**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

---

<b>Name</b>	SPACA1
<b>Synonyms</b>	SAMP32
<b>Function</b>	Plays a role in acrosome formation and establishment of normal sperm morphology during spermatogenesis (PubMed: <a href="#">34172998</a> ). Important for male fertility (PubMed: <a href="#">11870081</a> ).
<b>Cellular Location</b>	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}
<b>Tissue Location</b>	Testis specific..

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.