



## Rabbit Anti-SPACA3 antibody

SL17615R

<b>Product Name:</b>	SPACA3
<b>Chinese Name:</b>	精子顶体膜相关蛋白3抗体
<b>Alias:</b>	1700025M08Rik; ALLP17; Cancer/testis antigen 54; sperm acrosome associated 3; CT54; LYC3; Lysozyme like sperm specific secretory protein ALLP17; Lysozyme-like acrosomal sperm-specific secretory protein ALLP-17; Lysozyme-like protein 3; LYZL3; processed form; SACA3_HUMAN; SLLP1; SPACA3; Sperm acrosome associated 3; Sperm acrosome membrane-associated protein 3; Sperm lysozyme-like protein 1; Sperm protein reactive with antisperm antibodies; Sperm protein reactive with ASA; 1.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	23kDa
<b>Cellular localization:</b>	The cell membraneExtracellular matrix
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human SPACA3:51-150/215
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	SPACA3 is a 215 amino acid protein that participates in the fusion and adhesion of

sperm and egg plasma membrane during fertilization. Identified as a novel cancer/testis antigen in hematologic malignancies, SPACA3 has the ability to elicit B-cell immune responses in patients with cancer and is considered a potential target for immunotherapy. A member of the glycosyl hydrolase 22 family which is expressed in testis, placenta and epididymis, SPACA3 exists as two alternatively spliced isoforms; SPACA3 isoform 1 is a single-pass type II membrane protein of the sperm acrosome whereas SPACA3 isoform 2 is a secreted protein.

**Function:**

Sperm surface membrane protein that may be involved in sperm-egg plasma membrane adhesion and fusion during fertilization. It could be a potential receptor for the egg oligosaccharide residue N-acetylglucosamine, which is present in the extracellular matrix over the egg plasma membrane. The processed form has no detectable bacteriolytic activity in vitro.

**Subcellular Location:**

Secreted and Cytoplasmic vesicle > secretory vesicle > acrosome membrane. Anterior acrosome in non-capacitated spermatozoa and retained in the equatorial segment and in the luminal face of both the inner and outer acrosomal membranes following capacitation and the acrosome reaction.

**Tissue Specificity:**

The processed form is expressed in sperm (at protein level). Expressed in testis, epididymis and placenta.

**Post-translational modifications:**

The processed form derives from the membrane form by proteolytic processing.

**Similarity:**

Belongs to the glycosyl hydrolase 22 family.

**SWISS:**

Q8IXA5

**Gene ID:**

124912

**Database links:**

[Entrez Gene: 124912](#) Human

[Omim: 612749](#) Human

[SwissProt: Q8IXA5](#) Human

[Unigene: 434112](#) Human

	<p><b>Important Note:</b></p>
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This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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