

SPACA3 Rabbit pAb

SPACA3 Rabbit pAb

Catalog # AP56761

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q8IXA5
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	23431
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SPACA3
Epitope Specificity	51-150/215
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	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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	124912
Other Names	Sperm acrosome membrane-associated protein 3, Cancer/testis antigen 54, CT54, Lysozyme-like acrosomal sperm-specific secretory protein ALLP-17, Lysozyme-like protein 3, Sperm lysozyme-like protein 1, Sperm protein reactive with antisperm antibodies, Sperm protein reactive with ASA, Sperm acrosome membrane-associated protein 3, membrane form, Sperm acrosome membrane-associated protein 3, processed form, SPACA3, LYC3, LYZL3, SLLP1, SPRASA
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500

0-10000

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

SPACA3

Synonyms

LYC3, LYZL3, SLLP1, SPRASA

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.

Cellular Location

[Isoform 1]: Cytoplasmic vesicle, secretory vesicle, acrosome membrane; Single-pass type II membrane protein. Note=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 Location

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

Background

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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