

Rabbit Anti-SPESP1/Cy5.5 Conjugated antibody

SL17655R-Cy5.5

Product Name	Anti-SPESP1/Cy5.5
Chinese Name	Cy5.5 标记的精子赤道区域蛋白 1 抗体
Alias	Equatorial segment protein; ESP; Glycosylated 38 kDa sperm protein C 7/8; Glycosylated 38 kDa sperm protein C-7/8; MGC24663; SP-ESP; Sperm equatorial segment protein 1; Sperm equatorial segment protein 1 precursor; SPESP; SPESP_HUMAN; Spesp1.
Research Area	Cell biology Developmental biology Binding protein
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human(predicted:Rat,Rabbit)
Applications	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	37kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human SPESP1
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	background: SPESP1 is a 399 amino acid protein belonging to the SPESP1 family. Localizing to cytoplasmic vesicle, secretory vesicle, and acrosome, SPESP1 is highly expressed in testis, with lower levels found in placenta and fetal lung.

SPESP1 establishes an equatorial segment subcompartment early in sperm development and is required for proper sperm-egg fusion. Disruption of SPESP1 leads to abnormal distribution of sperm proteins resulting in a detached membrane from the equatorial segment and less fertile sperm. SPESP1 may interact with IZUMO1 and MN9 antigen and contains an N-glycosylation site as well as several cAMP-dependent kinase, protein kinase C, and casein kinase II consensus phosphorylation sites.

Function:

The encoded protein is a human alloantigen involved in sperm-egg binding and fusion. [provided by RefSeq, Apr 2010]

Subcellular Location:

Cytoplasmic vesicle > secretory vesicle > acrosome. Small proacrosomal granules (during the Golgi phase), enlarged acrosomal vesicles (during the cap phase), acrosome (during the elongating phase), equatorial segment of the acrosome.

Tissue Specificity:

Highly expressed in testis, where it is localized in the acrosome of postmeiotic stages of spermiogenesis (round and elongating spermatids and in ejaculated spermatozoa) (at protein level). Poorly expressed in placenta and fetal lung.

Similarity:

Belongs to the SPESP1 family.

Database links:

[Entrez Gene: 246777](#) Human

[Omim: 609399](#) Human

[SwissProt: Q6UW49](#) Human

[Unigene: 657932](#) Human

Important Note:

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