SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-SCP3 antibody

Catalog Number: SL10660R

FOR RESEARCH USE ONLY

[DATASHEET]

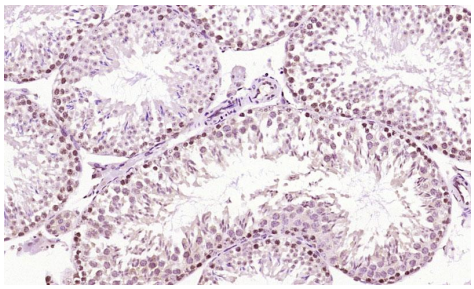
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	SCP3
Immunogen:	KLH conjugated synthetic peptide derived from human SYCP3: 151-236/236
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse, (predicted: Human, Rat)
Predicted MW.:	27kDa
Subcellular Location:	The nucleus cytoplasmic
Background:	This gene encodes an essential structural component of the synaptonemal complex. This complex is involved in synapsis, recombination and segregation of meiotic chromosomes. Mutations in this gene are associated with azoospermia in males and susceptibility to pregnancy loss in females. Alternate splicing results in multiple transcript variants that encode the same protein. [provided by RefSeq, May 2010] **Function:** Component of the transverse filaments of synaptonemal complexes (SCS), formed between homologous chromosomes during meiotic prophase. Has an essential meiotic function in spermatogenesis. May be important for testis development. Required for efficient phosphorylation of HORMAD1 and HORMAD2. **Subunit:** Interacts with SYCP2. **Subcellular Location:** Nucleus. Chromosome. Note=In tripartite segments of

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	synaptonemal complexes, irrespective of whether these are synapsed or unsynapsed. **Tissue Specificity:** Testis-specific. **Post-translational modifications:** Phosphorylated. DISEASE: Spermatogenic failure 4 (SPGF4) [MIM:270960]: An infertility disorder characterized by azoospermia, a condition of having no sperm present in the ejaculate. Testicular histology shows arrest of spermatogenesis at the pachytene stage of primary spermatocytes. Note=The disease is caused by mutations affecting the gene represented in this entry. **Similarity:** Belongs to the XLR/SYCP3 family. **Database links:** **Entrez Gene:** 50511 Human **Entrez Gene:** 20962 Mouse **Entrez Gene:** 25561 Rat Omim: 604759 Human **SwissProt:** Q8IZU3 Human **SwissProt:** P70281 Mouse **SwissProt:** Q63520 Rat **Unigene:** 506504 Human **Unigene:** 297977 Mouse **Unigene:** 34889 Rat

[VALIDATION IMAGES]



Paraformaldehyde-fixed, paraffin embedded (Mouse testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SCP3) Polyclonal Antibody, Unconjugated (SL10660R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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