

For Research Use Only

# SCP3 Polyclonal antibody

Catalog Number: 23024-1-AP

28 Publications



## Basic Information

### Catalog Number:

23024-1-AP

### Size:

150ul , Concentration: 450 ug/ml by Nanodrop and 353 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG19330

### GenBank Accession Number:

BC062662

### GeneID (NCBI):

50511

### UNIPROT ID:

Q8IZU3

### Full Name:

synaptonemal complex protein 3

### Calculated MW:

236 aa, 28 kDa

### Observed MW:

30 kDa, 33 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:4000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, duck

### Positive Controls:

WB : mouse testis tissue, HepG2 cells, rat testis tissue

IP : mouse testis tissue,

IF/ICC : HepG2 cells,

## Background Information

SYCP3 is an essential structural component of the synaptonemal complex. This complex is involved in synapsis, recombination and segregation of meiotic chromosomes. SYCP3 is required for centromere pairing during meiosis in male germ cells. SYCP3 is also required for normal meiosis during spermatogenesis and male fertility. Mutations in SYCP3 are associated with azoospermia in males and susceptibility to pregnancy loss in females.

## Notable Publications

Author	Pubmed ID	Journal	Application
Nicholas Serra	30202948	Biol Reprod	IF
Ziqian Min	36444304	iScience	
Yang Fu	35658231	Biomed Pharmacother	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

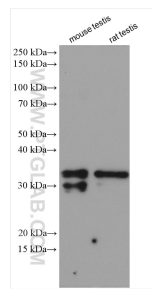
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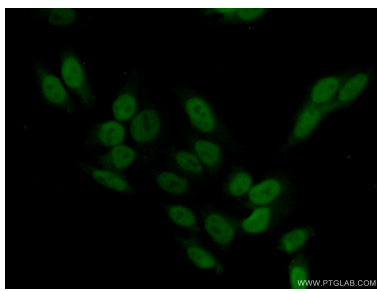
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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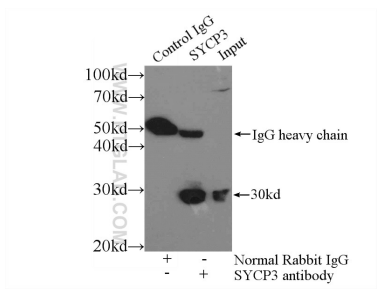
Selected Validation Data



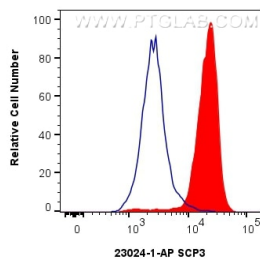
Various lysates were subjected to SDS PAGE followed by western blot with 23024-1-AP (SCP3 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (10% Formaldehyde) fixed HepG2 cells using 23024-1-AP (SCP3 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP result of anti-SCP3 (IP:23024-1-AP, 3ug; Detection:23024-1-AP 1:1000) with mouse testis tissue lysate 4000ug.



1x10<sup>6</sup> Jurkat cells were intracellularly stained with 0.8 ug SCP3 Polyclonal antibody (23024-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.8 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).