

For Research Use Only

# SPATA22 Polyclonal antibody

Catalog Number: 16989-1-AP

Featured Product

7 Publications



## Basic Information

### Catalog Number:

16989-1-AP

### Size:

150UL, Concentration: 253 µg/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG10591

### GenBank Accession Number:

BC029483

### GeneID (NCBI):

84690

### Full Name:

spermatogenesis associated 22

### Calculated MW:

363 aa, 41 kDa

### Observed MW:

41 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 µg for IP and 1:500-1:1000 for WB

IHC 1:50-1:500

## Applications

### Tested Applications:

IHC, IP, WB, ELISA

### Cited Applications:

IF, IHC, WB

### Species Specificity:

human, mouse

### Cited Species:

mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB: mouse testis tissue, human testis tissue

IP: mouse testis tissue,

IHC: mouse testis tissue,

## Background Information

Spata22 (NYD-SP20), a novel vertebrate-specific gene, is required for meiotic progress in mouse germ cells. It is essential for one or more key events of early meiotic prophase, as homologous chromosomes of mutant germ cells do not achieve normal synapsis or repair meiotic DNA double-strand breaks.

## Notable Publications

Author	Pubmed ID	Journal	Application
Mengcheng Luo	24240703	Nat Commun	WB
Jingjing Zhang	30760716	Nat Commun	WB,IF
Natalia Felipe-Medina	32845237	Elife	IF

## 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

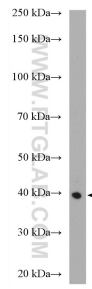
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

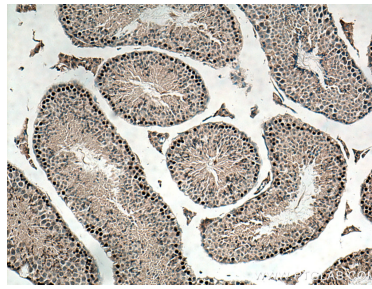
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

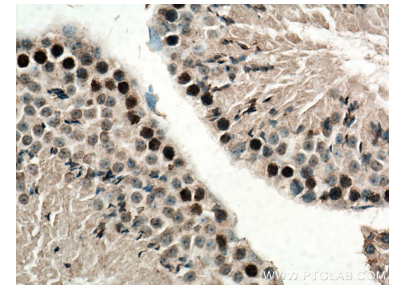
## Selected Validation Data



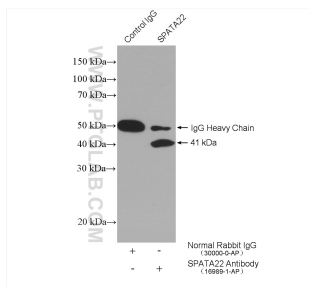
mouse testis tissue were subjected to SDS PAGE followed by western blot with 16989-1-AP (SPATA22 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 16989-1-AP (SPATA22 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 16989-1-AP (SPATA22 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP Result of anti-SPATA22 (IP:16989-1-AP, 3ug; Detection:16989-1-AP 1:500) with mouse testis tissue lysate 4800ug.