

For Research Use Only

# SPATA22 Polyclonal antibody

Catalog Number: 16989-1-AP

Featured Product

12 Publications



## Basic Information

<b>Catalog Number:</b> 16989-1-AP	<b>GenBank Accession Number:</b> BC029483	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 450 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 84690	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
<b>Source:</b> Rabbit	<b>Full Name:</b> spermatogenesis associated 22	<b>Calculated MW:</b> 363 aa, 41 kDa
<b>Isotype:</b> IgG	<b>Observed MW:</b> 41 kDa	
<b>Immunogen Catalog Number:</b> AG10591		

## Applications

<b>Tested Applications:</b> IHC, IP, WB, ELISA	<b>Positive Controls:</b> WB : mouse testis tissue, human testis tissue
<b>Cited Applications:</b> IF, IHC, WB	<b>IP :</b> mouse testis tissue,
<b>Species Specificity:</b> human, mouse, rat	<b>IHC :</b> mouse testis tissue,
<b>Cited Species:</b> mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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
Qianxing Zou	34825148	iScience	WB
Monica M Franca	35624308	Cell Death Differ	IF
Mengcheng Luo	24240703	Nat Commun	WB

## Storage

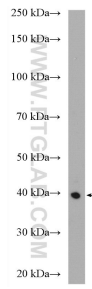
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

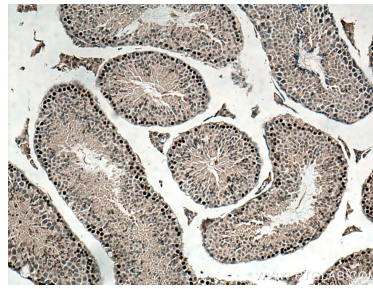
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

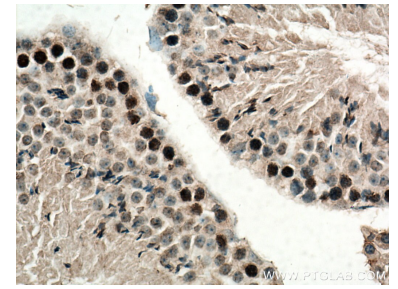
## Selected Validation Data



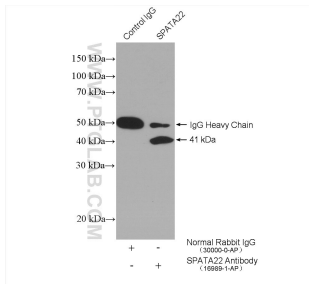
mouse testis tissue were subjected to SDS PAGE followed by western blot with 16989-1-AP (SPATA22 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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.