

For Research Use Only

# SPATA18 Polyclonal antibody

Catalog Number: 31808-1-AP



## Basic Information

<b>Catalog Number:</b> 31808-1-AP	<b>GenBank Accession Number:</b> BC025396	<b>Purification Method:</b> Antigen affinity Purification
<b>Source:</b> Rabbit	<b>GeneID (NCBI):</b> 132671	<b>Recommended Dilutions:</b> WB: 1:1000-1:6000 IHC: 1:200-1:800
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> Q8TC71	
<b>Immunogen Catalog Number:</b> AG36227	<b>Full Name:</b> spermatogenesis associated 18 homolog (rat)	
	<b>Calculated MW:</b> 538 aa, 61 kDa	
	<b>Observed MW:</b> 61 kDa	

## Applications

### Tested Applications:

WB, IHC, ELISA

### Species Specificity:

human, 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,

IHC: rat testis tissue,

## Background Information

The modulation of mitophagy after DNA damage is independent of the type of DNA damage stimuli used and the protein spermatogenesis-associated protein 18 (SPATA18) is an important player in this process (PMID: 32453416; 21264221). SPATA18, also known as MIEAP, is a p53 transcriptional target and was previously reported to contribute to mitochondrial quality control by inducing intramitochondrial lysosome-like organelles after mitochondrial damage (PMID: 21264221).

## Storage

### Storage:

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

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

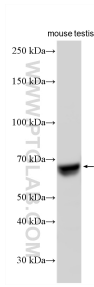
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

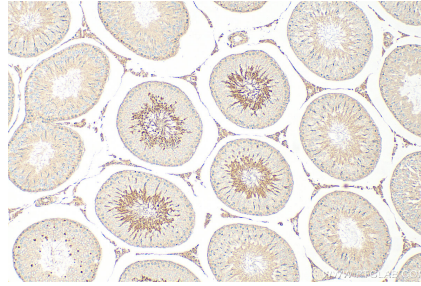
W: [ptgcn.com](http://ptgcn.com)

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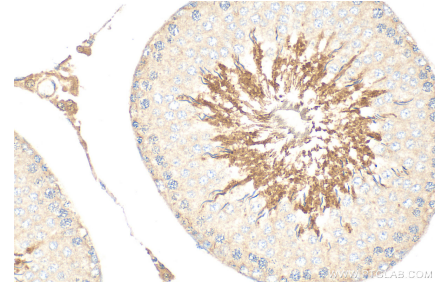
## Selected Validation Data



Mouse testis tissue lysate was subjected to SDS PAGE followed by western blot with 31808-1-AP (SPATA18 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded rat testis tissue slide using 31808-1-AP (SPATA18 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat testis tissue slide using 31808-1-AP (SPATA18 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).