

**SPATA18 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP13960A**

**Specification**

**SPATA18 Antibody (N-term) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">Q8TC71</a>
Other Accession	<a href="#">NP_660306.1</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	61109
Antigen Region	92-120

**SPATA18 Antibody (N-term) - Additional Information**

**Gene ID** 132671

**Other Names**

Mitochondria-eating protein,  
Spermatogenesis-associated protein 18,  
SPATA18, MIEAP

**Target/Specificity**

This SPATA18 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 92-120 amino acids from the N-terminal region of human SPATA18.

**Dilution**

WB~~1:1000  
IHC-P~~1:10~50

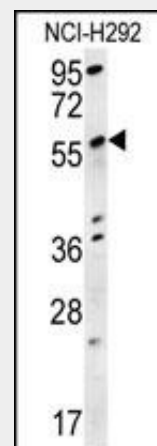
**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

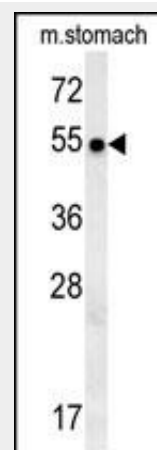
**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**



SPATA18 Antibody (N-term) (Cat. #AP13960a) western blot analysis in NCI-H292 cell line lysates (15ug/lane). This demonstrates the SPATA18 antibody detected SPATA18 protein (arrow).



SPATA18 Antibody (N-term) (Cat. #AP13960a) western blot analysis in mouse stomach tissue lysates (15ug/lane). This demonstrates the SPATA18 antibody detected SPATA18 protein (arrow).

SPATA18 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

#### **SPATA18 Antibody (N-term) - Protein Information**

**Name** SPATA18

**Synonyms** MIEAP

#### **Function**

Key regulator of mitochondrial quality that mediates the repairing or degradation of unhealthy mitochondria in response to mitochondrial damage. Mediator of mitochondrial protein catabolic process (also named MALM) by mediating the degradation of damaged proteins inside mitochondria by promoting the accumulation in the mitochondrial matrix of hydrolases that are characteristic of the lysosomal lumen. Also involved in mitochondrion degradation of damaged mitochondria by promoting the formation of vacuole-like structures (named MIV), which engulf and degrade unhealthy mitochondria by accumulating lysosomes. The physical interaction of SPATA18/MIEAP, BNIP3 and BNIP3L/NIX at the mitochondrial outer membrane regulates the opening of a pore in the mitochondrial double membrane in order to mediate the translocation of lysosomal proteins from the cytoplasm to the mitochondrial matrix.

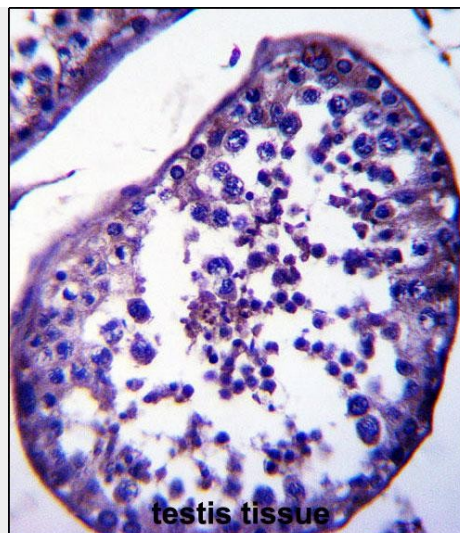
#### **Cellular Location**

Cytoplasm. Mitochondrion outer membrane  
Note=Localizes to the cytoplasm under normal conditions (PubMed:21264228). Relocalizes to mitochondrion outer membrane following cellular stress. Colocalizes with BNIP3 and BNIP3L at the mitochondrion outer membrane (PubMed:22292033)

#### **SPATA18 Antibody (N-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)



SPATA18 Antibody (N-term) (Cat. #AP13960a) immunohistochemistry analysis in formalin fixed and paraffin embedded human testis tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of SPATA18 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

#### **SPATA18 Antibody (N-term) - Background**

Potential role in spermatogenesis, especially in cell differentiation from late elongate spermatids to mature spermatozoa (By similarity).

#### **SPATA18 Antibody (N-term) - References**

Zemunik, T., et al. Croat. Med. J. 50(1):23-33(2009)  
Kaindl, A.M., et al. Hum. Mutat. 26(3):279-280(2005)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**SPATA18 Antibody (N-term) - Citations**

- [Ebselen alleviates testicular pathology in mice with Zika virus infection and prevents its sexual transmission.](#)