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SPATA18 / MIEAP Antibody (N-Terminus)
Chicken Polyclonal Antibody
Catalog # ALS15886

Specification

SPATA18 / MIEAP Antibody (N-Terminus) - Product Information

Application	**WB**
Primary Accession	Q8TC71
Reactivity	**Human, Mouse, Rat**
Host	**Chicken**
Clonality	**Polyclonal**
Calculated MW	**61kDa KDa**

SPATA18 / MIEAP Antibody (N-Terminus) - Additional Information

Gene ID 132671

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

Target/Specificity
Human SPATA18. At least three isoforms of SPATA18 are known to exist; this antibody will detect the two longest isoforms. SPATA18 antibody is predicted to not cross-react with other SPATA family members.

Reconstitution & Storage
Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions
SPATA18 / MIEAP Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

SPATA18 / MIEAP Antibody (N-Terminus) - 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.

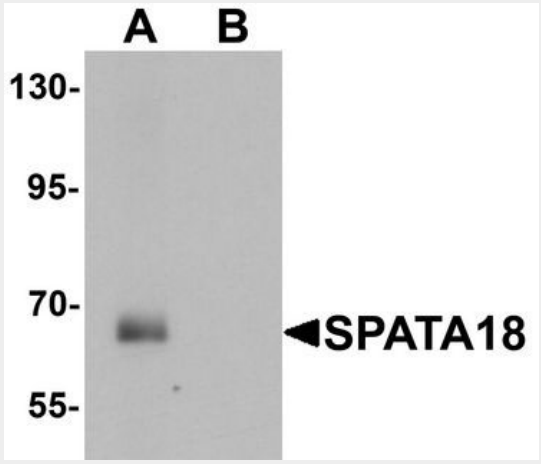
Cellular Location
Cytoplasm. Mitochondrion outer membrane Note=Localizes to the cytoplasm under normal conditions (PubMed:21264228). Relocalizes to mitochondrion outer membrane following cellular stress. Colocalizes with BNIP3 and BNIP3L at the mitochondrion outer membrane (PubMed:22292033)

SPATA18 / MIEAP Antibody (N-Terminus) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SPATA18 / MIEAP Antibody (N-Terminus) - Images



Western blot analysis of SPATA18 in rat lung tissue lysate with SPATA18 antibody at 1 ug/ml in...

SPATA18 / MIEAP Antibody (N-Terminus) - Background

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.

SPATA18 / MIEAP Antibody (N-Terminus) - References

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