

Datasheet for ABIN7554579

**SPATA18 Protein (AA 1-538) (His tag)**[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	SPATA18
Protein Characteristics:	AA 1-538
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SPATA18 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat SPATA18 Protein expressed in mammalian cells.
Sequence:	MAENLKRLVS NETLRTLQEK LDFWLKEYNT NTCDQNLNHC LELIEQVAKV QGQLFGILTA AAQEGGRNDG VETIKSRLLP WLEASFTAAS LGKSVDSKVP SLQDTFDRER HKDPSRDRD MQQLDSNLNS TRSQCNQVQD DLVETEKLE ESKNRS AISL LAEEEEINQL KKQLKSLQAQ EDARHRNTDQ RSSENRSESEP WSLEERKREQ WNSLKQNADQ QDTEAMSDYK KQLRNLKEEI AVLSAEKSAL QGRSSRSRSP SPAPRSRSCS RSRASPSTA VKVRRPSPNR SKLSNVARKA ALLSRFSDSY SQARLDAQCL LRRCIDKAET VQRIIYATV EAFHVAKMAF RHFKIHRKS LTPSYVGSND FENAVLDYVI CHLDLYDSQS SVNDVIRAMN VNPKISFPPV VDFCLLSDFI QEICCIAFAM QALEPPLDIA YGADGEVFND CKYRRSYDSD FTAPLVLYHV WPALMENDCV IMKGEAVTRR GAFWNSVRSV SRCRSRSLSP ICPRSQIGLN TMSRSRSPSP IRCGLPRF <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you</b>

## Product Details

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**have a special request, please contact us.**

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### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

### Grade:

custom-made

## Target Details

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### Target:

SPATA18

### Alternative Name:

SPATA18 ([SPATA18 Products](#))

### Background:

Mitochondria-eating protein (Spermatogenesis-associated protein 18),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.

{ECO:0000269|PubMed:21264221, ECO:0000269|PubMed:21264228,

## Target Details

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ECO:0000269|PubMed:22292033}.

Molecular Weight: 61.1 kDa

UniProt: [Q8TC71](#)

## Application Details

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Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months