Datasheet for ABIN7563619

SPATA18 Protein (AA 1-537) (His tag)

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Overview

Quantity:	1 mg
Target:	SPATA18
Protein Characteristics:	AA 1-537
Origin:	Mouse
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 mammalien cells.
Sequence:	MAESLKKLAK SESLQALQDK VTYWVNDYNS NSCDQNLNYC IELIEQVAKV QAQLFGILTV TAQEGGNNEG VETIKCRLLP LLQTSFSSVN MGKTAESEMC ATQDFQLRSK NRDNSPDQDQ HQSDNESFSE TQPTQVQDDL AESGKSLEGA KNGSTISLLA AEEEINQLKK QLKSLQAQED ARHKTSENRR SEALKSDHRS TKRTQDQRPQ DVVSNYEKHL QNLKEEIAVL SAEKSGLQGR SARSPSPSTG TRSHRRGRSR SHSRSRSHSR SNSPCTTVAK IRSPSPNRAK MSSVARKAAL LSRFSDAYSQ ARLDAQCLLR RCIDRAETVQ RIIYIATVEA FHVAKMAFRH FKIRVRKMLT PSNVGSNTDF ETAVSEYIVC HLDLYDSQSS VNDVIRAMNV NPKISFPPEV DFCLLTDFIQ EICCIAFAMQ SLEPPLDIAF GADGEIFNDC KYRRSYDSDF TAPLVFYHVW PALMENDCVI MKGEAVTKRG AFWSSVRPVM RCRSRSLSPI CPRNHFGIST VSRSRSPSPI RCTFARY **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**

Product Details

	have a special request, please contact us.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien 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

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

Target Details

	from the cytoplasm to the mitochondrial matrix (By similarity). {ECO:0000250}.
Molecular Weight:	60.4 kDa
UniProt:	Q0P557

Application Details

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

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