Datasheet for ABIN7555563

SPAG5 Protein (AA 1-1193) (His tag)

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Overview

Quantity:	1 mg
Target:	SPAG5
Protein Characteristics:	AA 1-1193
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SPAG5 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat SPAG5 Protein expressed in mammalien cells.
Sequence:	MWRVKKLSLS LSPSPQTGKP SMRTPLRELT LQPGALTNSG KRSPACSSLT PSLCKLGLQE GSNNSSPVDF VNNKRTDLSS EHFSHSSKWL ETCQHESDEQ PLDPIPQISS TPKTSEEAVD PLGNYMVKTI VLVPSPLGQQ QDMIFEARLD TMAETNSISL NGPLRTDDLV REEVAPCMGD RFSEVAAVSE KPIFQESPSH LLEESPPNPC SEQLHCSKES LSSRTEAVRE DLVPSESNAF LPSSVLWLSP STALAADFRV NHVDPEEEIV EHGAMEEREM RFPTHPKESE TEDQALVSSV EDILSTCLTP NLVEMESQEA PGPAVEDVGR ILGSDTESWM SPLAWLEKGV NTSVMLENLR QSLSLPSMLR DAAIGTTPFS TCSVGTWFTP SAPQEKSTNT SQTGLVGTKH STSETEQLLC GRPPDLTALS RHDLEDNLLS SLVILEVLSR QLRDWKSQLA VPHPETQDSS TQTDTSHSGI TNKLQHLKES HEMGQALQQA RNVMQSWVLI SKELISLLHL SLLHLEEDKT TVSQESRRAE TLVCCCFDLL KKLRAKLQSL KAEREEARHR EEMALRGKDA AEIVLEAFCA HASQRISQLE QDLASMREFR GLLKDAQTQL VGLHAKQEEL VQQTVSLTST LQQDWRSMQL DYTTWTALLS

Product Details

	RSRQLTEKLT VKSQQALQER DVAIEEKQEV SRVLEQVSAQ LEECKGQTEQ LELENSRLAT DLRAQLQILA NMDSQLKELQ SQHTHCAQDL AMKDELLCQL TQSNEEQAAQ WQKEEMALKH MQAELQQQQA VLAKEVRDLK ETLEFADQEN QVAHLELGQV ECQLKTTLEV LRERSLQCEN LKDTVENLTA KLASTIADNQ EQDLEKTRQY SQKLGLLTEQ LQSLTLFLQT KLKEKTEQET LLLSTACPPT QEHPLPNDRT FLGSILTAVA DEEPESTPVP LLGSDKSAFT RVASMVSLQP AETPGMEESL AEMSIMTTEL QSLCSLLQES KEEAIRTLQR KICELQARLQ AQEEQHQEVQ KAKEADIEKL NQALCLRYKN EKELQEVIQQ QNEKILEQID KSGELISLRE EVTHLTRSLR RAETETKVLQ EALAGQLDSN CQPMATNWIQ EKVWLSQEVD KLRVMFLEMK NEKEKLMIKF QSHRNILEEN LRRSDKELEK LDDIVQHIYK TLLSIPEVVR GCKELQGLLE FLS **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 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:	SPAG5
Alternative Name:	SPAG5 (SPAG5 Products)
Background:	Sperm-associated antigen 5 (Astrin) (Deepest) (Mitotic spindle-associated protein p126)

Target Details

	(MAP126),FUNCTION: Essential component of the mitotic spindle required for normal chromosome segregation and progression into anaphase (PubMed:11724960, PubMed:12356910, PubMed:27462074). Required for chromosome alignment, normal timing of sister chromatid segregation, and maintenance of spindle pole architecture (PubMed:17664331, PubMed:27462074). In complex with SKAP, promotes stable microtubule-kinetochore attachments. May contribute to the regulation of separase activity. May regulate AURKA localization to mitotic spindle, but not to centrosomes and CCNB1 localization to both mitotic spindle and centrosomes (PubMed:18361916, PubMed:21402792). Involved in centriole duplication. Required for CDK5RAP2, CEP152, WDR62 and CEP63 centrosomal localization and promotes the centrosomal localization of CDK2 (PubMed:26297806). In non-mitotic cells, upon stress induction, inhibits mammalian target of rapamycin complex 1 (mTORC1) association and recruits the mTORC1 component RPTOR to stress granules (SGs), thereby preventing mTORC1 hyperactivation-induced apoptosis (PubMed:23953116). May enhance GSK3B-mediated phosphorylation of other substrates, such as MAPT/TAU (PubMed:18055457). {ECO:0000269|PubMed:12356910, ECO:0000269|PubMed:17664331, ECO:0000269|PubMed:18055457, ECO:0000269|PubMed:18361916, ECO:0000269|PubMed:21402792, ECO:0000269|PubMed:23953116, ECO:0000269|PubMed:26297806, ECO:0000269|PubMed:27462074, ECO:0000305|PubMed:11724960}.
Molecular Weight:	134.4 kDa
UniProt:	Q96R06
Pathways:	M Phase

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.

Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months

