

Datasheet for ABIN7555476

Shugoshin Protein (AA 1-561) (His tag)



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Overview

Quantity:	1 mg
Target:	Shugoshin (SGOL1)
Protein Characteristics:	AA 1-561
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Shugoshin protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat SGO1 Protein expressed in mammalian cells.
Sequence:	<p>MAKERCLKKS FQDSLEDIKK RMKEKRNKNL AEIGKRRSFI AAPCQIITNT STLLKNYQDN</p> <p>NKMLVLALEN ESKVKEAQD IILQLRKECY YLTCQLYALK GKLTSSQQTVE PAQNQEICSS</p> <p>GMDPNSDDSS RNLVFKDLPQ IPLEETELPG QGESFQIEDQ IPTIPQDTLG VDFDSGEAKS</p> <p>TDNVLPRTVS VRSSLKKHCN SICQFDSLDD FETSHLAGKS FEFERVGFLD PLVNMHIPEN</p> <p>VQHNACQWSK DQVNLSPKLI QPGTFTKTKE DILESKSEQT KSKQRDTQER KREEKRKANR</p> <p>RKSKRMSKYK ENKSENKKT V PQQKMHKSVS SNDAYNFNLE EGVHLTPFRQ KVSNDNSNREE</p> <p>NNESEVSLCE SSGSGDDSD LYLPTCKYIQ NPTSNSDRPV TRPLAKRALK YTDEKETEGS</p> <p>KPTKTPTTTP PETQQSPHLS LKDITNVSLY PVVKIRRLSL SPKKNKASPA VALPKRRCTA</p> <p>SVNYKEPTLA SKLRRGDPFT DLCFLNSPIF KQKKDLRRSK KRALEVSPAK EAIFILYYVR</p> <p>EFVSRFPDCR KCKLETHICL R Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make</p>

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 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

Target:

Shugoshin (SGOL1)

Alternative Name:

SGO1 ([SGOL1 Products](#))

Background:

Shugoshin 1 (Serologically defined breast cancer antigen NY-BR-85) (Shugoshin-like 1),FUNCTION: Plays a central role in chromosome cohesion during mitosis by preventing premature dissociation of cohesin complex from centromeres after prophase, when most of cohesin complex dissociates from chromosomes arms. May act by preventing phosphorylation of the STAG2 subunit of cohesin complex at the centromere, ensuring cohesin persistence at centromere until cohesin cleavage by ESPL1/separase at anaphase. Essential for proper chromosome segregation during mitosis and this function requires interaction with PPP2R1A. Its phosphorylated form is necessary for chromosome congression and for the proper attachment of spindle microtubule to the kinetochore. Necessary for kinetochore localization of PLK1 and CENPF. May play a role in the tension sensing mechanism of the spindle-assembly checkpoint by regulating PLK1 kinetochore affinity. Isoform 3 plays a role in maintaining centriole cohesion involved in controlling spindle pole integrity. Involved in centromeric

Target Details

	enrichment of AUKRB in prometaphase. {ECO:0000269 PubMed:15604152, ECO:0000269 PubMed:15723797, ECO:0000269 PubMed:15737064, ECO:0000269 PubMed:16580887, ECO:0000269 PubMed:17617734, ECO:0000269 PubMed:17621308, ECO:0000269 PubMed:18331714, ECO:0000269 PubMed:20739936}.
Molecular Weight:	64.2 kDa
UniProt:	Q5FBB7
Pathways:	Maintenance of Protein Location

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