

Datasheet for ABIN7564841

SMC1B Protein (AA 1-1248) (His tag)



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Overview

Quantity:	1 mg
Target:	SMC1B
Protein Characteristics:	AA 1-1248
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMC1B protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Smc1b Protein expressed in mammalian cells.
Sequence:	<p>MGHLELLLV NFKSWRGRQV IGPFKRFTCI IGPN GSGKSN VMDALSFVMG EKTTNLRVKN</p> <p>IQELIHGAHT GKPVSSASV TIYIEDSGE EKTFTRIIRG GCSEYHFGDK PVSRSVYVAQ LENIGIIVKA</p> <p>QNCLVFQGTV ESISMKKPKE RTQFFEEIST SGEFIGEYEA KKKKLQKAE DAQFHFNVKK</p> <p>NVAAERKHAK IEKEEAHYQ NLLEELKINK IQLMLFQLYY NEEKINVLNT ELEQMDGNLS</p> <p>VVKDTLSHHE NIFKAKKKDY GMLTRQLQQT AKELKSVEAI LNQKRPQYIK AKENTSHHLK</p> <p>KLDLSKKLIT DNEKQCSKQE DGIRALVAEL ADLDRWKSF EKQMEEKILQ KGRDIELENS</p> <p>QLDRYKLLKE QVRRKVGIMT QQLEKLQWEQ KAEKERLAFE KRRHGDTQGN LKQIQEQIEE</p> <p>HKKRIELEE YTKTCMDCLE DKKQQEEALK KEIENTKSRM SEVNEELSLI RNELQNAGID</p> <p>NHEGKRQQR AEVLEHLKRL YPDSVFGRL DLCHPIHKKY QLAVTKLFGR YMVAIVVASE</p> <p>KIAKDCIRFL KAERAEPETF LALDYLDIKP INERLREIKG CKMMIDVIKT QFPQLKKVIQ</p> <p>FVCGNGLVCE TVEEARHIAF GGPERRKAVA LDGTLFLKSG VISGGSSDLK HKALCWDEKE</p>

LHNLRDKRSQ LVQELKELMK TLRKETDLKQ IQTLVQGTNT RLKYSQNELE MIKKKHLATF
YREQSQLQSE LLNIDSQCTM LSEGINKQQQ KIEEFQDKID EVEDDIFQDF CEEIGVENIR
EFENKHVKQQ QENDQKRLEF EKQKTRLNIQ LEYSRNQLKK KLNNDTLKT TIQKGKEDID
NLKKTETEECL KIVEELMVKQ EQIKEVLATQ SSNIEKIHQ IEEERKKVLA VDREVGKLQK
EVIQGSLE QKLEKHNL LDCKVQDIDI SLVLGSLEDI IEMELTETES TQATADIYEK EASIQIDYSP
LREDLKALQS DKEVEAHLTL LLQQVASQEN TLLKTTAPNL RAQENLKTVR DKFQESADV
EASRKEARIC RQEFQVKKRR RYDAFSQCFE HISVSIDQY KKLRCNNNAQ AFLSPENPEE
PYLDGISYNC VAPGKRFMPM DNLSGGEKCV AALALLFAVH SFRPAPFFVL DEVDAALDNT
NIGKVSSYIK EQSQEQFQMI IISLKEEFYS KADALIGVYP EHNECMFSHV LTLDLSKYPD
TEDQEGSRSH RKPRVPRVSM SPKSPQSR

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:	<p>Key Benefits:</p> <ul style="list-style-type: none">• 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). <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
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Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	SMC1B
Alternative Name:	Smc1b (SMC1B Products)

Target Details

Background:	Structural maintenance of chromosomes protein 1B (SMC protein 1B) (SMC-1-beta) (SMC-1B),FUNCTION: Meiosis-specific component of cohesin complex. Required for the maintenance of meiotic cohesion, but not, or only to a minor extent, for its establishment. Contributes to axial element (AE) formation and the organization of chromatin loops along the AE. Plays a key role in synapsis, recombination and chromosome movements. The cohesin complex is required for the cohesion of sister chromatids after DNA replication. The cohesin complex apparently forms a large proteinaceous ring within which sister chromatids can be trapped. At anaphase, the complex is cleaved and dissociates from chromatin, allowing sister chromatids to segregate. The meiosis-specific cohesin complex probably replaces mitosis specific cohesin complex when it dissociates from chromatin during prophase I. {ECO:0000269 PubMed:11564881, ECO:0000269 PubMed:15146193}.
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Molecular Weight:	144.5 kDa
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UniProt:	Q920F6
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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.
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
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Buffer:	The buffer composition is at the discretion of the manufacturer.
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Handling Advice:	Avoid repeated freeze-thaw cycles.
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Storage:	-80 °C
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Storage Comment:	Store at -80°C.
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Expiry Date:	12 months
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