Datasheet for ABIN7555499

SMC1B Protein (AA 1-1235) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	SMC1B
Protein Characteristics:	AA 1-1235
Origin:	Human
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 mammalien cells.
Sequence:	MAHLELLLVE NFKSWRGRQV IGPFRRFTCI IGPNGSGKSN VMDALSFVMG EKIANLRVKN IQELIHGAHI GKPISSSASV KIIYVEESGE EKTFARIIRG GCSEFRFNDN LVSRSVYIAE LEKIGIIVKA QNCLVFQGTV ESISVKKPKE RTQFFEEIST SGELIGEYEE KKRKLQKAEE DAQFNFNKKK NIAAERRQAK LEKEEAERYQ SLLEELKMNK IQLQLFQLYH NEKKIHLLNT KLEHVNRDLS VKRESLSHHE NIVKARKKEH GMLTRQLQQT EKELKSVETL LNQKRPQYIK AKENTSHHLK KLDVAKKSIK DSEKQCSKQE DDIKALETEL ADLDAAWRSF EKQIEEEILH KKRDIELEAS QLDRYKELKE QVRKKVATMT QQLEKLQWEQ KTDEERLAFE KRRHGEVQGN LKQIKEQIED HKKRIEKLEE YTKTCMDCLK EKKQQEETLV DEIEKTKSRM SEVNEELNLI RSELQNAGID THEGKRQQKR AEVLEHLKRL YPDSVFGRLF DLCHPIHKKY QLAVTKVFGR FITAIVVASE KVAKDCIRFL KEERAEPETF LALDYLDIKP INERLRELKG CKMVIDVIKT QFPQLKKVIQ FVCGNGLVCE TMEEARHIAL SGPERQKTVA LDGTLFLKSG VISGGSSDLK YKARCWDEKE

Product Details

	LKNLRDRRSQ KIQELKGLMK TLRKETDLKQ IQTLIQGTQT RLKYSQNELE MIKKKHLVAF YQEQSQLQSE LLNIESQCIM LSEGIKERQR RIKEFQEKID KVEDDIFQHF CEEIGVENIR EFENKHVKRQ QEIDQKRLEF EKQKTRLNVQ LEYSRSHLKK KLNKINTLKE TIQKGSEDID HLKKAEENCL QTVNELMAKQ QQLKDIRVTQ NSSAEKVQTQ IEEERKKFLA VDREVGKLQK EVVSIQTSLE QKRLEKHNLL LDCKVQDIEI ILLSGSLDDI IEVEMGTEAE STQATIDIYE KEEAFEIDYS SLKEDLKALQ SDQEIEAHLR LLLQQVASQE DILLKTAAPN LRALENLKTV RDKFQESTDA FEASRKEARL CRQEFEQVKK RRYDLFTQCF EHVSISIDQI YKKLCRNNSA QAFLSPENPE EPYLEGISYN CVAPGKRFMP MDNLSGGEKC VAALALLFAV HSFRPAPFFV LDEVDAALDN TNIGKVSSYI KEQTQDQFQM IVISLKEEFY SRADALIGIY PEYDDCMFSR VLTLDLSQYP DTEGQESSKR HGESR **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:	SMC1B
Alternative Name:	SMC1B (SMC1B Products)
Background:	Structural maintenance of chromosomes protein 1B (SMC protein 1B) (SMC-1-beta) (SMC-

Target Details

	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 (By similarity). {ECO:0000250}.
Molecular Weight:	143.8 kDa
UniProt:	Q8NDV3

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