

Datasheet for ABIN7555583 SMC1A Protein (AA 1-1233) (His tag)



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Quantity:	1 mg
Target:	SMC1A
Protein Characteristics:	AA 1-1233
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMC1A protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat SMC1A Protein expressed in mammalien cells.	
Sequence:	MGFLKLIEIE NFKSYKGRQI IGPFQRFTAI IGPNGSGKSN LMDAISFVLG EKTSNLRVKT	
	LRDLIHGAPV GKPAANRAFV SMVYSEEGAE DRTFARVIVG GSSEYKINNK VVQLHEYSEE	
	LEKLGILIKA RNFLVFQGAV ESIAMKNPKE RTALFEEISR SGELAQEYDK RKKEMVKAEE	
	DTQFNYHRKK NIAAERKEAK QEKEEADRYQ RLKDEVVRAQ VQLQLFKLYH NEVEIEKLNK	
	ELASKNKEIE KDKKRMDKVE DELKEKKKEL GKMMREQQQI EKEIKEKDSE LNQKRPQYIK	
	AKENTSHKIK KLEAAKKSLQ NAQKHYKKRK GDMDELEKEM LSVEKARQEF EERMEEESQS	
	QGRDLTLEEN QVKKYHRLKE EASKRAATLA QELEKFNRDQ KADQDRLDLE ERKKVETEAK	
	IKQKLREIEE NQKRIEKLEE YITTSKQSLE EQKKLEGELT EEVEMAKRRI DEINKELNQV	
	MEQLGDARID RQESSRQQRK AEIMESIKRL YPGSVYGRLI DLCQPTQKKY QIAVTKVLGK	
	NMDAIIVDSE KTGRDCIQYI KEQRGEPETF LPLDYLEVKP TDEKLRELKG AKLVIDVIRY	
	EPPHIKKALQ YACGNALVCD NVEDARRIAF GGHQRHKTVA LDGTLFQKSG VISGGASDLK	

AKARRWDEKA VDKLKEKKER LTEELKEQMK AKRKEAELRQ VQSQAHGLQM RLKYSQSDLE QTKTRHLALN LQEKSKLESE LANFGPRIND IKRIIQSRER EMKDLKEKMN QVEDEVFEEF CREIGVRNIR EFEEEKVKRQ NEIAKKRLEF ENQKTRLGIQ LDFEKNQLKE DQDKVHMWEQ TVKKDENEIE KLKKEEQRHM KIIDETMAQL QDLKNQHLAK KSEVNDKNHE MEEIRKKLGG ANKEMTHLQK EVTAIETKLE QKRSDRHNLL QACKMQDIKL PLSKGTMDDI SQEEGSSQGE DSVSGSQRIS SIYAREALIE IDYGDLCEDL KDAQAEEEIK QEMNTLQQKL NEQQSVLQRI AAPNMKAMEK LESVRDKFQE TSDEFEAARK RAKKAKQAFE QIKKERFDRF NACFESVATN IDEIYKALSR NSSAQAFLGP ENPEEPYLDG INYNCVAPGK RFRPMDNLSG GEKTVAALAL LFAIHSYKPA PFFVLDEIDA ALDNTNIGKV ANYIKEQSTC NFQAIVISLK EEFYTKAESL IGVYPEQGDC VISKVLTFDL TKYPDANPNP NEQ 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: SMC1A

Alternative Name: SMC1A (SMC1A Products)

Target Details

Storage Comment:

Expiry Date:

rarget Details		
Background:	Structural maintenance of chromosomes protein 1A (SMC protein 1A) (SMC-1-alpha) (SMC-1A) (Sb1.8), FUNCTION: Involved in chromosome cohesion during cell cycle and in DNA repair. Central component of cohesin complex. 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 cohesin complex may also play a role in spindle pole assembly during mitosis. Involved in DNA repair via its interaction with BRCA1 and its related phosphorylation by ATM, or via its phosphorylation by ATR. Works as a downstream effector both in the ATM/NBS1 branch and in the ATR/MSH2 branch of S-phase checkpoint. {ECO:0000269 PubMed:11877377}.	
Molecular Weight:	143.2 kDa	
UniProt:	Q14683	
Pathways:	Stem Cell Maintenance	
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	
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Store at -80°C.

12 months