

Datasheet for ABIN7564946 SMC1A Protein (AA 1-1233) (His tag)



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Quantity:	1 mg
Target:	SMC1A
Protein Characteristics:	AA 1-1233
Origin:	Mouse
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

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 ESVSGSQRTS 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

Background:	Structural maintenance of chromosomes protein 1A (SMC protein 1A) (SMC-1-alpha) (SMC-1A)	
	(Chromosome segregation protein SmcB) (Sb1.8),FUNCTION: Involved in chromosome	
	cohesion during cell cycle and in DNA repair. Involved in DNA repair via its interaction with	
	BRCA1 and its related phosphorylation by ATM, and works as a downstream effector in the	
	ATM/NBS1 branch of S-phase checkpoint (By similarity). 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:0000250}.	
Molecular Weight:	143.2 kDa	
UniProt:	Q9CU62	
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.	
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Handling Advice:	The buffer composition is at the discretion of the manufacturer. Avoid repeated freeze-thaw cycles.	
Handling Advice: Storage:	·	
	Avoid repeated freeze-thaw cycles.	