

Datasheet for ABIN7564565  
**SMC4 Protein (AA 1-1286) (His tag)**



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## Overview

Quantity:	1 mg
Target:	SMC4
Protein Characteristics:	AA 1-1286
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMC4 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat Smc4 Protein expressed in mammalien cells.
Sequence:	MRRKGTKPST ACHQEEGPPP SQDGAHSDEE MEQPAGEAES AAPAKPPGEE LDNRSLEEIL NSIPPPPPPA MASEAGAPRL MITHIVNQNF KSYAGEKVLG PFHKRFSCII GPNGSGKSNV IDSMLFVFGY RAQKIRSKKL SVLIHNSDEH KDIQSCTVEV HFQKIIDKEG DDYEVLPNSN FYVSR TAYRD STSVYHISGK KKTFKDVGNL LRSHGIDLDH NRFLILQGEV EQIAMMKPKG QTEHDEGMLE YLEDIIGCGR LNEPIKVLCR RVEILNEHRG EKLNRVKMVE KEKDALEGEK NIAIEFLTLE NEMFKKKNHI CQYYIYDLQN RIAEITTQKE KIHEDTKEIT EKS NVLSNEM KAKNSAVKDV EK KLNKVTKF IEQNKEKFTQ LDLEDVQVRE K LKHATSKAK KLEKQLQKDK EKVEELK SVP AKSKTVINET TTRNNSLEKE REKEEKKLKE VMDSLKQETQ GLQKEKEIQE KELMGFNKSV NEARSKMEVA QSELDIYLSR HNTAVS QLSK AKEALITASE TLKERKAAIK DINTKLPQTQ QELKEKEKEL QKLTQEEINL KSLVHDLFQK VEEAKSSLAM NRSRGKVLDA IIQEKKS GRI PGIYGRLGDL GAIDEKYDIA ISSCCHALDY IVVDSIDTAQ ECVNFLKKHN IGIATFIGLD

KMTVWAKKMS KIQTPENTPR LFDLVKVKNE EIRQAFYFAL RDTLVANNLD QATRVAYQRD  
RRWRVVTLQG QIIEQSGTMS GGGSKVMRGR MGSSVIDEIS VEEVNKMESQ LERHSKQAMQ  
IQEQKVQHEE AVVKLRHSER DMRNTLEKFA ASIQGLSEQE EYLCVQIKEL EANVLTTPAD  
RKQQKLEEN VSVFKKEYDA VAEKAGKVEA EIKRLHNTII DINNRKKAQ QNKLDTINKQ  
LDECASAITK AQVAIKTADR NLKKAQDSVC RTEKEIKDTE KEINDLKTEL KNIEDKAEV  
INNTKTAETS LPEIQKEHRN LLQELKVIQE NEHALQKDAL SIKLKLEQID GHISEHNSKI  
KYWQKEISKI KLHPVEDNPV ETVAVLSQEE LEAIKNPESI TNEIALLEAQ CREMKPNLGA  
IAEYKKKEDL YLQRVAELDK ITSERDNFRQ AYEDLRKQRL NEFMAGFYVI TNKLKENYQM  
LTLGGDAELE LVDSLDPFSE GIMFSVRPPK KSWKKIFNLS GGEKTLSSLA LVFALHHYKP  
TPLYFMDEID AALDFKNVSI VAFYIYEQTK NAQFIIISLR NNMFEISDRL IGIYKTYNST  
KSAVANPKQI ASKGLC **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.**

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### 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.

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### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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### Grade:

custom-made

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## Target Details

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### Target:

SMC4

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### Alternative Name:

Smc4 ([SMC4 Products](#))

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## Target Details

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Background: Structural maintenance of chromosomes protein 4 (SMC protein 4) (SMC-4) (Chromosome-associated polypeptide C) (XCAP-C homolog),FUNCTION: Central component of the condensin complex, a complex required for conversion of interphase chromatin into mitotic-like condensed chromosomes. The condensin complex probably introduces positive supercoils into relaxed DNA in the presence of type I topoisomerases and converts nicked DNA into positive knotted forms in the presence of type II topoisomerases (By similarity). {ECO:0000250}.

Molecular Weight: 146.9 kDa

UniProt: [Q8CG47](#)

## Application Details

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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

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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