

Datasheet for ABIN7564566
SMC2 Protein (AA 1-1191) (His tag)



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Overview

Quantity:	1 mg
Target:	SMC2
Protein Characteristics:	AA 1-1191
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMC2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Smc2 Protein expressed in mammalien cells.
Sequence:	MYVKSIILEG FKSYAQRTEV NGFDPLFNAI TGLNGSGKSN ILDSICFLLG ISNLSQVRAS NLQDLVYKNG QAGITKASVS ITFDNSDKKQ SPLGFEAHDE ITVTRQVVIG GRNKYLINGV NANNTRVQDL FCSVGLNVNN PHFLIMQGRI TKVLNMKPPE ILSMIEEAAG TRMYEYKKIA AQKTIEKKEA KLKEIKTILE EEITPTIQKL KEERSSYLEY QKVMREIEHL SRLYIAYQFL RAEDTKERSA GELKEMQDKI VNLQEVLSN EKKIKALNCE IEELERRKDK ETGGKLSLE DACAEAQRVN TKSQSAFDLK KKNLASEETK RKELQNSMAE DSKALAAEK EVKKITDGLH GLQEASNKDA EALAAAQQHF NAVSAGLSSN EDGAEATLAG QMIACKNDIS KAQTEAKQAQ MKLKHAQQEL KSKQAEVKKM DSGYKKDQDA FEAVKKAKEK LETEMKKLNY EENKEEKLE KHRQLSRDIN NLKKGHEALL AKFPNLQFAY KDPEKNWNRN SVKGLVASLI NVKDNSTATA LEVVAGERLY NVVVDTEVTA KKLEKSELK RRYTIPLNK ISARCIAPET LRVAQNLVGP DNVHVALSLV DYKPELQKGM EFVFGTTFVC NNMDNAKKVA FDKRIMTRTV TLGGDVFDPH GTLSGGARSQ

Product Details

AASILTKFQE VKDVQDELRT KENELRALEE ELAGLKNVAE KYRQLKQQWE MKTEEGDLLQ
TKLQQSSYHK QQEELDALKK TIEESEETLK STKEIQKAE EKYEALENKM KNAEAEREKE
LKDAQKLDK AKTKADASSK KMKEKQQEVE AITLELEELK REHASNEQQL DAVNEAIKAY
EGQIEKMAAE VAKNKESVNK AQDELMKQKQ IITAQDNIK DKCAEVAKHN LQNNESQLKI
KELDHSISKH KREADDAAK VSKMLSDYDW INAEKHLFGQ PNSAYDFKTN NPKEAGQRLQ
KLQEVKEKLG RNVNLRAMNV LTEAEERYND LMKKKRIVEN DKSKILATIE DLDQKKNQAL
NIAWQKVNKD FGSIFSTLLP GANAMLAPPE GQTVLDGLEF KVALGNTWKE NLTELSGGQR
SLVALSLILS MLLFKPAPIY ILDEVDAALD LSHTQNIGQM LRTHFTHSQF IVVSLKEGMF
NNANVLFKTK FVDGVSTVAR FTQSQAGKIP KEAKSRGKEP N **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 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.

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

Grade: custom-made

Target Details

Target: SMC2

Alternative Name: Smc2 ([SMC2 Products](#))

Background: Structural maintenance of chromosomes protein 2 (SMC protein 2) (SMC-2) (Chromosome-

Target Details

associated protein E) (FGF-inducible protein 16) (XCAP-E homolog),FUNCTION: Central component of the condensin complex, a complex required for conversion of interphase chromatin into mitotic-like condense 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: 134.2 kDa

UniProt: [Q8CG48](#)

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