

Datasheet for ABIN7564564

SMC5 Protein (AA 1-1101) (His tag)



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Overview

Quantity:	1 mg
Target:	SMC5
Protein Characteristics:	AA 1-1101
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMC5 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Smc5 Protein expressed in mammalian cells.
Sequence:	<p>MATPSGKAAP PNPQVSKRSL PRDASSEVPS KRKNSNPLPT LPRPSGTFVE GSIVRIAMEN</p> <p>FLTYDICEVS PGPHLNMIIG ANGTGKSSIV CAICLGLAGK PAFMGRADKV GFFVKRGCSK</p> <p>GLVEIELFRT SGNLIITREI DVIKNQSFWF INKKPVTQKI VEEQVAALNI QVGNLCQFLP</p> <p>QDKVGEFAKL SKIELLEATE KSVGPPPEMHR YHCELKNFRE KEKQLETSC EKTEYLEKMOV</p> <p>QRNERYKQDV ERFYERKRHL DLIEMLEAKR PWVEYENVRQ EYEGVKLIRD RVKEEVRKLK</p> <p>EGQIPMTRRI EIDRQRHTL EVRIKEKSTD IKEASQKCKQ RQDLIERKDR QIKELQQALT</p> <p>VKQNEELDRQ KRISNTRKMI EDLQSELKTA ENCENLQPQI DTVTNDLRRV QEEKALCEGE</p> <p>IIDKQREKEM LEKQRRSVSD HITRFDNLNMN QKEDKLRQRY RDTYDAVLWL RNNRDRFKQR</p> <p>VCEPIMLTIN MKDNKNAKYV ENHISSNDLR AFVFESQEDM EIFLREVRDN KKLRVNAVIA</p> <p>PKISYADKAP SRSLNDLKQY GFFSYLRELF DAPDPVMSYL CCQYHIHEVP VGTERTERI</p> <p>ERVIQETRLK QIYTAEKYV LKTSVYSNKV ISSNTSLKVA QFLTVDLE QRRHLEEQLK</p>

EMNRQLEAVD SGLAALRDTN RHLELKDNEI RLKKKELLER KTRKRQLEQK ISSKLASIRL
MEQDTCNLEE EERKASTKIK EINVQKAKLV TELTGLVKIC TSFQIQKVDL ILQNTTIVSE
KNKLEADYMA SSSQLRVTEQ QFIELDNDRQ RLLQKCKELM KKARQVCNLS ADQAVPQEFQ
TQVPTIPNGH SSSPPMAFQD LPNTLDEIDA LLTEERSRAS CFTGLNPSV EYYSKREVEI
QQLTEELQGK KVELDEYREN ISQVKERWLN PLKELVEKIN EKFSNFFSSM QCAGEVDLHT
ENEEDYDKYG IRIRVKFRSS TQLHELTPHH QSGGERSVST MLYLMALQEL NRCPPFRVDE
INQGMDPINE RRVFEMVVNT ACKENTSQYF FITPKLLQNL PYSEKMTVLF VYNGPHMLEP
NRWNLKAFQR RRRRITFTQP Q **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:	SMC5
Alternative Name:	Smc5 (SMC5 Products)
Background:	Structural maintenance of chromosomes protein 5 (SMC protein 5) (SMC-5) (mSMC5) (Protein expressed in male leptotene and zygotene spermatocytes 453) (MLZ-453),FUNCTION: Core component of the SMC5-SMC6 complex, a complex involved in repair of DNA double-strand

Target Details

breaks by homologous recombination. The complex may promote sister chromatid homologous recombination by recruiting the SMC1-SMC3 cohesin complex to double-strand breaks. The complex is required for telomere maintenance via recombination and mediates sumoylation of shelterin complex (telosome) components. Required for sister chromatid cohesion during prometaphase and mitotic progression, the function seems to be independent of SMC6 (By similarity). {ECO:0000250}.

Molecular Weight: 128.8 kDa

UniProt: [Q8CG46](#)

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