

Datasheet for ABIN3095494 SMC2 Protein (AA 1-1197) (Strep Tag)



Overview

Quantity:	250 µg
Target:	SMC2
Protein Characteristics:	AA 1-1197
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMC2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MHIKSIILEG FKSYAQRTEV NGFDPLFNAI TGLNGSGKSN ILDSICFLLG ISNLSQVRAS
	NLQDLVYKNG QAGITKASVS ITFDNSDKKQ SPLGFEVHDE ITVTRQVVIG GRNKYLINGV
	NANNTRVQDL FCSVGLNVNN PHFLIMQGRI TKVLNMKPPE ILSMIEEAAG TRMYEYKKIA
	AQKTIEKKEA KLKEIKTILE EEITPTIQKL KEERSSYLEY QKVMREIEHL SRLYIAYQFL LAEDTKVRSA
	EELKEMQDKV IKLQEELSEN DKKIKALNHE IEELEKRKDK ETGGILRSLE DALAEAQRVN
	TKSQSAFDLK KKNLACEESK RKELEKNMVE DSKTLAAKEK EVKKITDGLH ALQEASNKDA
	EALAAAQQHF NAVSAGLSSN EDGAEATLAG QMMACKNDIS KAQTEAKQAQ MKLKHAQQEL
	KNKQAEVKKM DSGYRKDQEA LEAVKRLKEK LEAEMKKLNY EENKEESLLE KRRQLSRDIG
	RLKETYEALL ARFPNLRFAY KDPEKNWNRN CVKGLVASLI SVKDTSATTA LELVAGERLY
	NVVVDTEVTG KKLLERGELK RRYTIIPLNK ISARCIAPET LRVAQNLVGP DNVHVALSLV
	EYKPELQKAM EFVFGTTFVC DNMDNAKKVA FDKRIMTRTV TLGGDVFDPH GTLSGGARSQ

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produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Comment:

Concentration: • The concentration of our recombinant proteins is measured using the absorbance at 280nm. · The protein's absorbance will be measured against its specific reference buffer. We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein. Purification: One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®). Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC). Grade: custom-made Target Details SMC2 Target: Alternative Name: SMC2 (SMC2 Products) Background: Structural maintenance of chromosomes protein 2 (SMC protein 2) (SMC-2) (Chromosomeassociated protein E) (hCAP-E) (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. {ECO:0000269|PubMed:11136719}. Molecular Weight: 135.7 kDa UniProt: 095347 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.

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modifications.

ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from

even the most difficult-to-express proteins, including those that require post-translational

protein production are removed, leaving only the protein production machinery and the

Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce

During lysate production, the cell wall and other cellular components that are not required for

Application Details	
	mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Format: Buffer:	Liquid The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
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Buffer: Handling Advice:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein. Avoid repeated freeze-thaw cycles.