antibodies

Datasheet for ABIN3095550 SMC6 Protein (AA 1-1091) (Strep Tag)



Overview

Image

Quantity:	1 mg
Target:	SMC6
Protein Characteristics:	AA 1-1091
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMC6 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MAKRKEENFS SPKNAKRPRQ EELEDFDKDG DEDECKGTTL TAAEVGIIES IHLKNFMCHS
	MLGPFKFGSN VNFVVGNNGS GKSAVLTALI VGLGGRAVAT NRGSSLKGFV KDGQNSADIS
	ITLRNRGDDA FKASVYGNSI LIQQHISIDG SRSYKLKSAT GSVVSTRKEE LIAILDHFNI
	QVDNPVSVLT QEMSKQFLQS KNEGDKYKFF MKATQLEQMK EDYSYIMETK ERTKEQIHQG
	EERLTELKRQ CVEKEERFQS IAGLSTMKTN LESLKHEMAW AVVNEIEKQL NAIRDNIKIG
	EDRAARLDRK MEEQQVRLNE AEQKYKDIQD KLEKISEETN ARAPECMALK ADVVAKKRAY
	NEAEVLYNRS LNEYKALKKD DEQLCKRIEE LKKSTDQSLE PERLERQKKI SWLKERVKAF
	QNQENSVNQE IEQFQQAIEK DKEEHGKIKR EELDVKHALS YNQRQLKELK DSKTDRLKRF
	GPNVPALLEA IDDAYRQGHF TYKPVGPLGA CIHLRDPELA LAIESCLKGL LQAYCCHNHA
	DERVLQALMK RFYLPGTSRP PIIVSEFRNE IYDVRHRAAY HPDFPTVLTA LEIDNAVVAN
	SLIDMRGIET VLLIKNNSVA RAVMQSQKPP KNCREAFTAD GDQVFAGRYY SSENTRPKFL
	SRDVDSEISD LENEVENKTA QILNLQQHLS ALEKDIKHNE ELLKRCQLHY KELKMKIRKN

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Sequence without tag. The proposed Strep-Tag is based on experience s 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 in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALICE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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 will ensure that you receive a correctly folded protein.

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.

Expression System:

- ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 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!

Concentration:

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	 The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer. We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):
	 In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	SMC6
Alternative Name:	SMC6 (SMC6 Products)
Background:	Structural maintenance of chromosomes protein 6 (SMC protein 6) (SMC-6)
	(hSMC6),FUNCTION: Core component of the SMC5-SMC6 complex, a complex involved in DNA
	double-strand 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 in
	ALT (alternative lengthening of telomeres) cell lines and mediates sumoylation of shelterin
	complex (telosome) components which is proposed to lead to shelterin complex disassembly
	in ALT-associated PML bodies (APBs). Required for recruitment of telomeres to PML nuclear
	bodies. SMC5-SMC6 complex may prevent transcription of episomal DNA, such as circular vira
	DNA genome (PubMed:26983541). {ECO:0000269 PubMed:16810316,
	ECO:0000269 PubMed:17589526, ECO:0000269 PubMed:26983541}.
Molecular Weight:	126.3 kDa
UniProt:	Q96SB8

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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.
Comment:	 ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the 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
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiny Date:	Unlimited (if stored properly)

Expiry Date: Unlimited (if stored properly)



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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