antibodies.com

Datasheet for ABIN3095549 SMC3 Protein (AA 1-1217) (Strep Tag)



ew
ΘVV

Quantity:	1 mg
Target:	SMC3
Protein Characteristics:	AA 1-1217
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMC3 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:	MYIKQVIIQG FRSYRDQTIV DPFSSKHNVI VGRNGSGKSN FFYAIQFVLS DEFSHLRPEQ
	RLALLHEGTG PRVISAFVEI IFDNSDNRLP IDKEEVSLRR VIGAKKDQYF LDKKMVTKND
	VMNLLESAGF SRSNPYYIVK QGKINQMATA PDSQRLKLLR EVAGTRVYDE RKEESISLMK
	ETEGKREKIN ELLKYIEERL HTLEEEKEEL AQYQKWDKMR RALEYTIYNQ ELNETRAKLD
	ELSAKRETSG EKSRQLRDAQ QDARDKMEDI ERQVRELKTK ISAMKEEKEQ LSAERQEQIK
	QRTKLELKAK DLQDELAGNS EQRKRLLKER QKLLEKIEEK QKELAETEPK FNSVKEKEER
	GIARLAQATQ ERTDLYAKQG RGSQFTSKEE RDKWIKKELK SLDQAINDKK RQIAAIHKDL
	EDTEANKEKN LEQYNKLDQD LNEVKARVEE LDRKYYEVKN KKDELQSERN YLWREENAEQ
	QALAAKREDL EKKQQLLRAA TGKAILNGID SINKVLDHFR RKGINQHVQN GYHGIVMNNF
	ECEPAFYTCV EVTAGNRLFY HIVDSDEVST KILMEFNKMN LPGEVTFLPL NKLDVRDTAY
	PETNDAIPMI SKLRYNPRFD KAFKHVFGKT LICRSMEVST QLARAFTMDC ITLEGDQVSH
	RGALTGGYYD TRKSRLELQK DVRKAEEELG ELEAKLNENL RRNIERINNE IDQLMNQMQQ

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3095549 | 05/07/2024 | Copyright antibodies-online. All rights reserved.

	IETQQRKFKA SRDSILSEMK MLKEKRQQSE KTFMPKQRSL QSLEASLHAM ESTRESLKAE
	LGTDLLSQLS LEDQKRVDAL NDEIRQLQQE NRQLLNERIK LEGIITRVET YLNENLRKRL
	DQVEQELNEL RETEGGTVLT ATTSELEAIN KRVKDTMARS EDLDNSIDKT EAGIKELQKS
	MERWKNMEKE HMDAINHDTK ELEKMTNRQG MLLKKKEECM KKIRELGSLP QEAFEKYQTL
	SLKQLFRKLE QCNTELKKYS HVNKKALDQF VNFSEQKEKL IKRQEELDRG YKSIMELMNV
	LELRKYEAIQ LTFKQVSKNF SEVFQKLVPG GKATLVMKKG DVEGSQSQDE GEGSGESERG
	SGSQSSVPSV DQFTGVGIRV SFTGKQGEMR EMQQLSGGQK SLVALALIFA IQKCDPAPFY
	LFDEIDQALD AQHRKAVSDM IMELAVHAQF ITTTFRPELL ESADKFYGVK FRNKVSHIDV
	ITAEMAKDFV EDDTTHG
	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

- ALICE®, our Armost Living Cell-Free Expression System is based on a fysate 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!

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN3095549 | 05/07/2024 | Copyright antibodies-online. All rights reserved.

	Concentration:
	 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®):
	1. 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.
	2. 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)
Target Details	

y

Target:	SMC3
Alternative Name:	SMC3 (SMC3 Products)
Background:	Structural maintenance of chromosomes protein 3 (SMC protein 3) (SMC-3) (Basement membrane-associated chondroitin proteoglycan) (Bamacan) (Chondroitin sulfate proteoglycan 6) (Chromosome-associated polypeptide) (hCAP),FUNCTION: Central component of cohesin, a complex required for chromosome cohesion during the cell cycle. The cohesin complex may form a large proteinaceous ring within which sister chromatids can be trapped. At anaphase, the complex is cleaved and dissociates from chromatin, allowing sister chromatids to segregate. Cohesion is coupled to DNA replication and is involved in DNA repair. The cohesin complex also plays an important role in spindle pole assembly during mitosis and in chromosomes movement. {ECO:0000269 PubMed:11076961, ECO:0000269 PubMed:19907496}.
Molecular Weight:	141.5 kDa
UniProt:	Q9UQE7
Pathways:	Stem Cell Maintenance

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 3/4 | Product datasheet for ABIN3095549 | 05/07/2024 | Copyright antibodies-online. All rights reserved.

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:	I Inlimited (if stored properly)

Expiry Date: Unlimited (if stored properly)