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Datasheet for ABIN3091624 CEP63 Protein (AA 1-703) (Strep Tag)





Overview

Quantity:	1 mg
Target:	CEP63
Protein Characteristics:	AA 1-703
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CEP63 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB)

Product Details

Sequence:	MEALLEGIQN RGHGGGFLTS CEAELQELMK QIDIMVAHKK SEWEGRTHAL ETCLKIREQE
	LKSLRSQLDV THKEVGMLHQ QVEEHEKIKQ EMTMEYKQEL KKLHEELCIL KRSYEKLQKK
	QMREFRGNTK NHREDRSEIE RLTAKIEEFR QKSLDWEKQR LIYQQQVSSL EAQRKALAEQ
	SEIIQAQLVN RKQKLESVEL SSQSEIQHLS SKLERANDTI CANELEIERL TMRVNDLVGT
	SMTVLQEQQQ KEEKLRESEK LLEALQEEKR ELKAALQSQE NLIHEARIQK EKLQEKVKAT
	NTQHAVEAIR PREESLAEKK YTSQGQGDLD SVLSQLNFTH TSEDLLQAEV TCLEGSLESV
	SATCKQLSQE LMEKYEELKR MEAHNNEYKA EIKKLKEQIL QGEQSYSSAL EGMKMEISHL
	TQELHQRDIT IASTKGSSSD MEKRLRAEMQ KAEDKAVEHK EILDQLESLK LENRHLSEMV
	MKLELGLHEA KEISLADLQE NYIEALNKLV SENQQLQKDL MNTKSQLEIS TQMCKKQNDR
	IFKPTHSRTT EFKNTEFKPT HGQHRHDGIK TEHYKTDLHS PRGQASDSIN PMSRVLSPLS
	PQISPCSSTR SLTSYSLCKT HSLPSALDTN EANFSDTMSE SMNDQEEFIS SCSLPVSPLG
	SIATRFLEEE ELRSHHILER LDAHIEELKR ESEKTVRQFT ALK

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 1/5 | Product datasheet for ABIN3091624 | 04/16/2024 | Copyright antibodies-online. All rights reserved. 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:

- 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®):

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	 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:	CEP63
Alternative Name:	CEP63 (CEP63 Products)
Background:	Centrosomal protein of 63 kDa (Cep63),FUNCTION: Required for normal spindle assembly
	(PubMed:21406398, PubMed:21983783, PubMed:26297806, PubMed:35793002). Plays a key
	role in mother-centriole-dependent centriole duplication, the function seems also to involve
	CEP152, CDK5RAP2 and WDR62 through a stepwise assembled complex at the centrosome
	that recruits CDK2 required for centriole duplication (PubMed:21983783, PubMed:26297806).
	Reported to be required for centrosomal recruitment of CEP152, however, this function has
	been questioned (PubMed:21983783, PubMed:26297806). Also recruits CDK1 to centrosomes
	(PubMed:21406398). Plays a role in DNA damage response (PubMed:21406398). Following
	DNA damage, such as double-strand breaks (DSBs), is removed from centrosomes, this leads
	to the inactivation of spindle assembly and delay in mitotic progression (PubMed:21406398).
	Promotes stabilization of FXR1 protein by inhibiting FXR1 ubiquitination (PubMed:35989368).
	{EC0:0000269 PubMed:21406398, EC0:0000269 PubMed:21983783,
	ECO:0000269 PubMed:26297806, ECO:0000269 PubMed:35793002,
	ECO:0000269 PubMed:35989368}.
Molecular Weight:	81.3 kDa
UniProt:	Q96MT8
Pathways:	M Phase
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies

Application Details	
	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.
Expiry Date:	Unlimited (if stored properly)



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

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