antibodies

## Datasheet for ABIN3132887 TCP1 alpha/CCTA Protein (AA 1-556) (Strep Tag)



Overview

Quantity:	1 mg
Target:	TCP1 alpha/CCTA (TCP1)
Protein Characteristics:	AA 1-556
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TCP1 alpha/CCTA protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

## Product Details

Sequence:	MEGPLSVFGD RSTGEAVRSQ NVMAAASIAN IVKSSFGPVG LDKMLVDDIG DVTITNDGAT
	ILKLLEVEHP AAKVLCELAD LQDKEVGDGT TSVVIIAAEL LKNADELVKQ KIHPTSVISG
	YRLACKEAVR YINENLIINT DELGRDCLIN AAKTSMSSKI IGINGDYFAN MVVDAVLAVK
	YTDARGQPRY PVNSVNILKA HGRSQIESML INGYALNCVV GSQGMPKRIV NAKIACLDFS
	LQKTKMKLGV QVVITDPEKL DQIRQRESDI TKERIQKILA TGANVILTTG GIDDMYLKYF
	VEAGAMAVRR VLKRDLKHVA KASGASILST LANLEGEETF EVTMLGQAEE VVQERICDDE
	LILIKNTKAR TSASIILRGA NDFMCDEMER SLHDALCVVK RVLELKSVVP GGGAVEAALS
	IYLENYATSM GSREQLAIAE FARSLLVIPN TLAVNAAQDS TDLVAKLRAF HNEAQVNPER
	KNLKWIGLDL VHGKPRDNKQ AGVFEPTIVK VKSLKFATEA AITILRIDDL IKLHPESKDD
	KHGSYENAVH SGALDD
	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

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	have a special request, please contact us.
Characteristics:	Key Benefits:
	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.</li> <li>These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	This protein is a <b>made-to-order protein</b> 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 <b>made-to-order proteins</b> 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:
	<ul> <li>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.</li> <li>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!</li> </ul>
	Concentration:
	<ul> <li>The concentration of our recombinant proteins is measured using the absorbance at 280nm</li> <li>The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.</li> <li>We use the Expasy's protparam tool to determine the absorption coefficient of each protein.</li> </ul>
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.

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Product Details	
	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:	$\ge$ 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	
Target:	TCP1 alpha/CCTA (TCP1)
Alternative Name:	Tcp1 (TCP1 Products)
Background:	T-complex protein 1 subunit alpha (TCP-1-alpha) (CCT-alpha) (Tailless complex polypeptide 1A) (TCP-1-A) (Tailless complex polypeptide 1B) (TCP-1-B),FUNCTION: Component of the chaperonin-containing T-complex (TRiC), a molecular chaperone complex that assists the folding of proteins upon ATP hydrolysis. The TRiC complex mediates the folding of WRAP53/TCAB1, thereby regulating telomere maintenance. As part of the TRiC complex may play a role in the assembly of BBSome, a complex involved in ciliogenesis regulating transports vesicles to the cilia. The TRiC complex plays a role in the folding of actin and tubulin. {ECO:0000250 UniProtKB:P17987}.
Molecular Weight:	60.4 kDa
UniProt:	P11983
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:	<ul> <li>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.</li> <li>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</li> </ul>

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Application Details	
	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)