antibodies

## Datasheet for ABIN3135945 Cyclin T2 Protein (CCNT2) (AA 1-723) (His tag)



Overview

Image

Quantity:	1 mg
Target:	Cyclin T2 (CCNT2)
Protein Characteristics:	AA 1-723
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Cyclin T2 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

## Product Details

Sequence:	MASGRGASSR WFFTREQLEN TPSRRCGVEA DEELSHRQQA ANLIQDMGQR LNVSQLTINT
	AIVYMHRFYM HHSFTKFNRN IISPTALFLA AKVEEQARKL EHVIKVAHAC LHPLEPLLDT
	KCDAYLQQTQ ELVLLETIML QTLGFEITIE HPHTDVVKCT QLVRASKDLA QTSYFMATNS
	LHLTTFCLQY KPTVIACVCI HLACKWSNWE IPVSTDGKHW WEYVDPTVTL ELLDELTHEF
	LQILEKTPSR LKRIRNWRAM AKKPKVDGQV SETPLLGSSL VQNSILVDSV TGVPANPSFQ
	KPSTSTFPAP IPLNSGSTSV QDSRASDNLS VLAAGMPSTS YSLSSHQEWP QHPDSARTDP
	VYTQKQEATL SGSQYISFQQ GPSMALHSGL HHRPDKVADH SSAKQEYTHK AGSSKHHGPI
	PATPGMLPQK MSLDKYREKR KLETLDVDTR DHYLAAHAEQ QHKHGPAQAV TGTSVTSPIK
	MKLPLTNSDR PEKHVAEKKE RSGSLKLRIP IPPPDKGPSK EELKMKIKVA SSERHSSSDE
	GSGKSKHSSP HISRDHKEKH KEHPANRHHS SHKYLHMHSG GSKHTADGMP PTVLRSPVGL
	GPEGVSSASS ARKKLHSSEA SHNHHSKMSK SSKSAGSSSS SSSVKQYLSS HSSVFNHPLP
	PPPPVTYQVG YGHLSTLVKL DKKPVEPHGP EANHEYSTSS QHMDYKDTFD MLDSLLSAQG MNM

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	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a	
	special request, please contact us.	
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Mouse Ccnt2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>	
	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.	
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything	
	(other companies might charge you for any performed steps in the expression process for	
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression	
	experiments or purification optimization).	
	When you order this made-to-order protein you will only pay upon receival of the correctly	
	folded protein. With no financial risk on your end you can rest assured that our experienced	
	protein experts will do everything to make sure that you receive the protein you ordered.	
	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.	
	The concentration of the protein is calculated using its specific absorption coefficient. We use	
	the Expasy's protparam tool to determine the absorption coefficient of each protein.	
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:	
	<ol> <li>In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.</li> <li>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.</li> </ol>	
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.	
Sterility:	0.22 µm filtered	
Endotoxin Level:	Protein is endotoxin free.	
Grade:	Crystallography grade	

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Target:	Cyclin T2 (CCNT2)
Alternative Name:	Ccnt2 (CCNT2 Products)
Background:	Regulatory subunit of the cyclin-dependent kinase pair (CDK9/cyclin T) complex, also called
	positive transcription elongation factor B (P-TEFB), which is proposed to facilitate the transition
	from abortive to production elongation by phosphorylating the CTD (carboxy-terminal domain)
	of the large subunit of RNA polymerase II (RNAP II). The activity of this complex is regulated by
	binding with 7SK snRNA (By similarity). Plays a role during muscle differentiation, P-TEFB
	complex interacts with MYOD1, this tripartite complex promotes the transcriptional activity of
	MYOD1 through its CDK9-mediated phosphorylation and binds the chromatin of promoters and
	enhancers of muscle-specific genes, this event correlates with hyperphosphorylation of the
	CTD domain of RNA pol II (PubMed:16245309, PubMed:23060074, PubMed:12037670). In
	addition, enhances MYOD1-dependent transcription through interaction with PKN1 (By
	similarity). Involded in early embryo development (PubMed:19364821).
	{ECO:0000250 UniProtKB:060583, ECO:0000269 PubMed:12037670,
	EC0:0000269 PubMed:16245309, EC0:0000269 PubMed:19364821,
	ECO:0000269 PubMed:23060074}.
Molecular Weight:	81.2 kDa Including tag.
UniProt:	Q7TQK0
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 gurantee
	though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the
	recombinant protein with the default tag will be insoluble our protein lab may suggest a higher
	molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible
	options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid

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Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

## Images



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