antibodies

Datasheet for ABIN3133433 Cyclin D1 Protein (CCND1) (AA 1-295) (His tag)



Image

Overview	
Quantity:	1 mg
Target:	Cyclin D1 (CCND1)
Protein Characteristics:	AA 1-295
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Cyclin D1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)
Product Details	
Sequence:	MEHQLLCCEV ETIRRAYPDT NLLNDRVLRA MLKTEETCAP SVSYFKCVQK EIVPSMRKIV
	ATWMLEVCEE QKCEEEVFPL AMNYLDRFLS LEPLKKSRLQ LLGATCMFVA SKMKETIPLT
	AEKLCIYTDN SIRPEELLQM ELLLVNKLKW NLAAMTPHDF IEHFLSKMPE ADENKQTIRK
	HAQTFVALCA TDVKFISNPP SMVAAGSVVA AMQGLNLGSP NNFLSCYRTT HFLSRVIKCD
	PDCLRACQEQ IEALLESSLR QAQQNVDPKA TEEEGEVEEE AGLACTPTDV RDVDI
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Mouse Ccnd1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process
	 Mouse Ccnd1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
	 State-of-the-art algorithm used for plasmid design (Gene synthesis)

• 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

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Cyclin D1 (CCND1)
Crystallography grade
Protein is endotoxin free.
0.22 µm filtered
>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
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.
1. 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
Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
the Expasy's protparam tool to determine the absorption coefficient of each protein.
The concentration of the protein is calculated using its specific absorption coefficient. We use
specific reference buffer.
The protein's absorbance will be measured in several dilutions and is measured against its
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.
folded protein. With no financial risk on your end you can rest assured that our experienced
When you order this made-to-order protein you will only pay upon receival of the correctly
experiments or purification optimization).
custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
(other companies might charge you for any performed steps in the expression process for
In the unlikely event that the protein cannot be expressed or purified we do not charge anythin
cannot be expressed or purified.
made proteins from other companies is that there is no financial obligation in case the proteir
The big advantage of ordering our made-to-order proteins in comparison to ordering custom

Target:	Cyclin D1 (CCND1)
Alternative Name:	Ccnd1 (CCND1 Products)
Background:	Regulatory component of the cyclin D1-CDK4 (DC) complex that phosphorylates and inhibits
	members of the retinoblastoma (RB) protein family including RB1 and regulates the cell-cycle

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	during G(1)/S transition. Phosphorylation of RB1 allows dissociation of the transcription factor E2F from the RB/E2F complex and the subsequent transcription of E2F target genes which are responsible for the progression through the G(1) phase. Hypophosphorylates RB1 in early G(1) phase. Cyclin D-CDK4 complexes are major integrators of various mitogenenic and
	antimitogenic signals. Also substrate for SMAD3, phosphorylating SMAD3 in a cell-cycle- dependent manner and repressing its transcriptional activity. Component of the ternary complex, cyclin D1/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex. Exhibits transcriptional corepressor activity with INSM1 on the NEUROD1 and
	INS promoters in a cell cycle-independent manner (By similarity). {EC0:0000250}.
Molecular Weight:	34.4 kDa Including tag.
UniProt:	P25322
Pathways:	PI3K-Akt Signaling, Cell Division Cycle, Mitotic G1-G1/S Phases, ER-Nucleus Signaling
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
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

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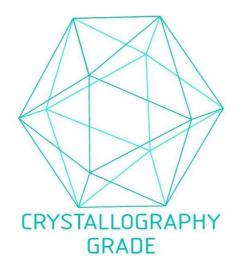


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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