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# Datasheet for ABIN3091123 CD6 Protein (CD6) (AA 18-402) (His tag)



Overview

Image

Quantity:	1 mg
Target:	CD6
Protein Characteristics:	AA 18-402
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD6 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

#### Product Details

Sequence:	HPSPAPPDQL NTSSAESELW EPGERLPVRL TNGSSSCSGT VEVRLEASWE PACGALWDSR
	AAEAVCRALG CGGAEAASQL APPTPELPPP PAAGNTSVAA NATLAGAPAL LCSGAEWRLC
	EVVEHACRSD GRRARVTCAE NRALRLVDGG GACAGRVEML EHGEWGSVCD DTWDLEDAHV
	VCRQLGCGWA VQALPGLHFT PGRGPIHRDQ VNCSGAEAYL WDCPGLPGQH YCGHKEDAGA
	VCSEHQSWRL TGGADRCEGQ VEVHFRGVWN TVCDSEWYPS EAKVLCQSLG CGTAVERPKG
	LPHSLSGRMY YSCNGEELTL SNCSWRFNNS NLCSQSLAAR VLCSASRSLH NLSTPEVPAS
	VQTVTIESSV TVKIENKESR ELMLL
	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>Human CD6 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> </ul>

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	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.
	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:
	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
	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:	>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
Target Details	
Target:	CD6
Alternative Name:	CD6 (CD6 Products)

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Target Details	
Background:	Cell adhesion molecule that mediates cell-cell contacts and regulates T-cell responses via its
	interaction with ALCAM/CD166 (PubMed:15048703, PubMed:15294938, PubMed:16352806,
	PubMed:16914752, PubMed:24945728, PubMed:24584089). Contributes to signaling cascades
	triggered by activation of the TCR/CD3 complex (PubMed:24584089). Functions as
	costimulatory molecule, promotes T-cell activation and proliferation (PubMed:15294938,
	PubMed:16352806, PubMed:16914752). Contributes to the formation and maturation of the
	immunological synapse (PubMed:15294938, PubMed:16352806). Functions as calcium-
	dependent pattern receptor that binds and aggregates both Gram-positive and Gram-negative
	bacteria. Binds both lipopolysaccharide (LPS) from Gram-negative bacteria and lipoteichoic
	acid from Gram-positive bacteria (PubMed:17601777). LPS binding leads to the activation of
	signaling cascades and down-stream MAP kinases (PubMed:17601777). Mediates activation of
	the inflammatory response and the secretion of pro-inflammatory cytokines in response to LPS
	(PubMed:17601777). {ECO:0000269 PubMed:15048703, ECO:0000269 PubMed:15294938,
	ECO:0000269 PubMed:16352806, ECO:0000269 PubMed:16914752,
	EC0:0000269 PubMed:17601777, EC0:0000269 PubMed:24584089,
	EC0:0000269 PubMed:24945728}.
Molecular Weight:	42.0 kDa Including tag.
UniProt:	P30203
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:	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.

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## Handling

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

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