

Datasheet for ABIN3091224

**CD109 Protein (CD109) (AA 22-1420) (His tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	1 mg
Target:	CD109
Protein Characteristics:	AA 22-1420
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD109 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

## Product Details

Sequence:	VAPGPRFLVT APGIIRPGGN VTIGVELLEH CPSQVTVKAE LLKTASNLTV SVLEAEGVFE KGSFKTLTLP SLPLNSADEI YELRVTGRTQ DEILFSNSTR LSFETKRISV FIQTDKALYK PKQEVKFRIV TLFSDFKPYK TSLNILIKDP KSNLIQQWLS QQSDLGVISK TFQLSSHPIL GDWSIQVQVN DQTYQQSFQV SEYVLPKFEV TLQTPLYCSM NSKHLNGTIT AKYTYGKPKV GDVTLTFLPL SFWGKKKNIT KTFKINGSAN FSFNDEEMKN VMDSSNGLSE YDLSSPGPV EILTTVTESV TGISRVNSTN VFFKQHDYII EFFDYTTVLK PSLNFTATVK VTRADGNQLT LEERRNNVVI TVTQRNYTEY WSGSNSGNQK MEAVQKINYT VPQSGTFKIE FPILEDSEL QLKAYFLGSK SSMVHSLFK SPSKTYIQLK TRDENIKVGS PFELVVGSK RLKELSYMVV SRGQLVAVGK QNSTMFSLTP ENSWTPKACV IVYYIEDDGE IISDVLKIPV QLVFKNKIKL YWSKVKAEPS EKVSLRISVT QPDSIVGIVA VDKSVNLMNA SNDITMENVV HELELYNTGY YLGFMFMNSFA VFQECGLWWL TDANLTKDYI DGVYDNAEYA ERFMEENEGH IVDIHDFSLG SSPHVRKHFP ETWIWLDTNM GYRIYQFEFV TVPDSITSWV ATGFVISEDL GLGLTTTPVE
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LQAFQPFIF LNLPSVIRG EEFALEITIF NYLKDATEVK VIIKSDKFD ILMTSNEINA TGHQQTLLVP  
SEDGATVLFP IRPTHLGEIP ITVTALSPTA SDAVTQMILV KAEGIEKSYS QSILLDLTDN  
RLQSTLKTLS FSFPNTVTG SERVQITAIG DVLGPSINGL ASLIRMPYGC GEQNMINFAP  
NIYILDYLT KKLTDNLKE KALSFMQRGY QRELLYQRED GSFSAGNYD PSGSTWLSAF  
VLRCFLEADP YIDIDQNV LH RTYTWLKG HQ KSNGEFWDPG RVIHSELQGG NKSPVTLTAY  
IVTSLG YRK YQPNIDVQES IHFLESEFSR GISDNYTLAL ITYALSSVGS PKAKEALNML  
TWRAEQEGGM QFWVSSESKL SDSWQPRSLD IEVAAAYALLS HFLQFQTSEG IPIMRWLSRQ  
RNSLGGFAST QDTTVALKAL SEFAALMNTE RTNIQVTVTG PSSPSPVKFL IDTHNRLLQ  
TAE LAVVQPT AVNISANGFG FAICQLNVVY NVKASGSSRR RRSIQNQEAF DLDVAVKENK  
DDLNHVDLNV CTSFSGPGRS GMALMEVNLL SGFMVPSEAI SLSETVKKVE YDHGKLNLYL  
DSVNETQFCV NIPAVRNFKV SNTQDASVSI VDYYPEPRRQA VRSYNSEVKL SSCDLCSDVQ  
GCRPCEDGA

**Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.**

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### Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human CD109 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).

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 receipt 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.

## Product Details

Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: <ol style="list-style-type: none"><li>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.</li><li>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.</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

## Target Details

Target:	CD109
Alternative Name:	CD109 ( <a href="#">CD109 Products</a> )
Background:	Modulates negatively TGFB1 signaling in keratinocytes. {ECO:0000269 PubMed:16754747}.
Molecular Weight:	157.5 kDa Including tag.
UniProt:	<a href="#">Q6YHK3</a>
Pathways:	<a href="#">Activated T Cell Proliferation</a>

## 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:	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)

## Images



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