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# Datasheet for ABIN3130755 CARD9 Protein (AA 1-536) (His tag)

Image



### Overview

Quantity:	1 mg
Target:	CARD9
Protein Characteristics:	AA 1-536
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CARD9 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

## Product Details

 Sequence:
 MSDYENDDEC WSTLESFRVK LISVIDPSRI TPYLRQCKVL NPDDEEQVLS DPNLVIRKRK

 VGVLLDILQR TGHKGYVAFL ESLELYYPQL YRKVTGKEPA RVFSMIIDAS GESGLTQLLM

 TEVMKLQKKV QDLTALLSSK DDFIKELRVK DSLLRKHQER VQRLKEECEL SSAELKRCKD

 ENYELAMCLA HLSEEKGAAL MRNRDLQLEV DRLRHSLMKA EDDCKVERKH TLKLRHAMEQ

 RPSQELLWEL QQEKDLLQAR VQELQVSVQE GKLDRNSPYI QVLEEDWRQA LQEHQKQVST

 IFSLRKDLRQ AETLRARCTE EKEMFELQCL ALRKDAKMYK DRIEAILLQM EEVSIERDQA

 MASREELHAQ CTQSFQDKDK LRKLVRELGE KADELQLQLF QTESRLLAAE GRLKQQQLDM

 LILSSDLEDS SPRNSQELSL PQDLEEDAQL SDKGVLADRE SPEQPFMALN KEHLSLTHGM

 GPSSSEPPEK ERRRLKESFE NYRRKRALRK MQNSWRQGEG DRGNTTGSDN TDTEGS

 Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a

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Product Details	
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Mouse Card9 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</li> </ol>
	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

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Target:	CARD9
Alternative Name:	Card9 (CARD9 Products)
Background:	Adapter protein that plays a key role in innate immune response to a number of intracellular
	pathogens, such as C.albicans and L.monocytogenes. Is at the crossroads of ITAM-tyrosine
	kinase and the Toll-like receptors (TLR) and NOD2 signaling pathways (PubMed:17514206).
	Probably controls various innate immune response pathways depending on the intracellular
	pathogen. Controls CLEC7A (dectin-1)-mediated myeloid cell activation induced by the yeast
	cell wall component zymosan, leading to cytokine production and innate anti-fungal immunity:
	acts by regulating BCL10-MALT1-mediated NF-kappa-B activation pathway. Activates NF-
	kappa-B via BCL10 (PubMed:16862125). In response to the hyphal form of C.albicans, mediates
	CLEC6A (dectin-2)-induced I-kappa-B kinase ubiquitination, leading to NF-kappa-B activation via
	interaction with BCL10 (PubMed:20538615). In response to L.monocytogenes infection, acts by
	connecting NOD2 recognition of peptidoglycan to downstream activation of MAP kinases
	(MAPK) without activating NF-kappa-B (PubMed:17187069). In response to fungal infection,
	may be required for the development and subsequent differentiation of interleukin 17-producing
	T helper (TH-17) cells (PubMed:17450144). Also involved in activation of myeloid cells via
	classical ITAM-associated receptors and TLR: required for TLR-mediated activation of MAPK,
	while it is not required for TLR-induced activation of NF-kappa-B (PubMed:17486093).
	{ECO:0000269 PubMed:16862125, ECO:0000269 PubMed:17187069,
	ECO:0000269 PubMed:17450144, ECO:0000269 PubMed:17486093,
	ECO:0000269 PubMed:17514206, ECO:0000269 PubMed:20538615}.
Molecular Weight:	63.4 kDa Including tag.
UniProt:	A2AIV8
Pathways:	Activation of Innate immune Response
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.

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## Application Details

#### 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