

Datasheet for ABIN3090912

CARD14 Protein (AA 1-1004) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	CARD14
Protein Characteristics:	AA 1-1004
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CARD14 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AlIcE®
Sequence:	<p>MGELCRRDSA LTALDEETLW EMMESHRRHRI VRCICPSRLT PYLRQAKVLC QLDEEEVLHS</p> <p>PRLTNSAMRA GHLLDLLKTR GKNGAIAFLE SLKFHNPDVY TLVTGLQPDV DFSNFSGLME</p> <p>TSKLTECLAG AIGSLQEELN QEKGQKEVLL RRCQQLQEHL GLAETRAEGL HQLEADHSRM</p> <p>KREVS AHFHE VLRLKDEMLS LSLHYSNALQ EKELAASRCR SLQEELYLLK QELQRANMVS</p> <p>SCELELQEQS LRTASDQESG DEELNRLKEE NEKLRLTFS LAEKDILEQS LDEARGSRQE</p> <p>LVERIHSLRE RAVAAERQRE QYWEEKEQTL LQFQKSKMAC QLYREKVNAL QAQVCELQKE</p> <p>RDQAYSARDS AQREISQSLV EKDSLRRQVF ELTDQVCELR TQLRQLQAEP PGVLKQEART</p> <p>REPCPREKQR LVRMHAICPR DDSDCSLVSS TESQLLSDLS ATSSRELVD SFRSSSPAPPS</p> <p>QQSLYKRVAE DFGEEPWSFS SCLEIPEGDP GALPGAKAGD PHLDYELLD TADLPQLESSL</p> <p>QPVSPGRLDV SESGVL MRRR PARRILSQVT MLAFQGDALL EQISVIGGNL TGIFIHRVTP</p> <p>GSAADQMALR PGTQIVMDY EASEPLFKAV LEDTTLEEAV GLLRRVDGFC CLSVKVNTDG</p>

YKRLQLDLEA KVATSGDSFY IRVNLAMEGR AKGELQVHCN EVLHVTDTMF QGCGCWHHAHR
VNSYTMKDTA AHGTIPNYSR AQQQLIALIQ DMTQQCTVTR KPSSGGPQKL VRIVSMDKAK
ASPLRLSFDR GQLDPSRMEG SSTCFWAESC LTLVPYTLVR PHRPARPRPV LLVPRAVGKI
LSEKLCLLQG FKKCLAEYLS QEEYEAWSQR GDIIQEGEVS GGRCWVTRHA VESLMEKNTH
ALLDVQLDSV CTLHRMDIFP IVIHVSVNEK MAKKLKGLQ RLGTSEEQLL EAARQEEGDL
DRAPCLYSSL APDGWSDLDG LLSCVRQAIA DEQKKVWTE QSPR

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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 try to ensure that you receive soluble 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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.

Product Details

- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Purification: One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

Target Details

Target: CARD14

Alternative Name: CARD14 ([CARD14 Products](#))

Background: Caspase recruitment domain-containing protein 14 (CARD-containing MAGUK protein 2) (Carma 2), FUNCTION: Acts as a scaffolding protein that can activate the inflammatory transcription factor NF-kappa-B and p38/JNK MAP kinase signaling pathways. Forms a signaling complex with BCL10 and MALT1, and activates MALT1 proteolytic activity and inflammatory gene expression. MALT1 is indispensable for CARD14-induced activation of NF-kappa-B and p38/JNK MAP kinases (PubMed:11278692, PubMed:21302310, PubMed:27113748, PubMed:27071417). May play a role in signaling mediated by TRAF2, TRAF3 and TRAF6 and protects cells against apoptosis. {ECO:0000269|PubMed:11278692, ECO:0000269|PubMed:21302310, ECO:0000269|PubMed:27071417, ECO:0000269|PubMed:27113748}, FUNCTION: [Isoform 3]: Not able to activate the inflammatory transcription factor NF-kappa-B and may function as a dominant negative regulator (PubMed:21302310, PubMed:26358359). {ECO:0000269|PubMed:21302310, ECO:0000269|PubMed:26358359}.

Molecular Weight: 113.3 kDa

UniProt: [Q9BXL6](#)

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: ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce

Application Details

even the most difficult-to-express proteins, including those that require post-translational modifications.

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Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months