

Datasheet for ABIN3090358

CARD11 Protein (AA 1-1154) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	CARD11
Protein Characteristics:	AA 1-1154
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CARD11 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MPGGGPEMDD YMETLKDEED ALWENVECNH HMLSRYPNPA KLTPYLRQCK VIDEQDEDEV</p> <p>LNAPMLPSKI NRAGRLLDIL HTKGQRGYV FLESLEFYYP ELYKLVTGKE PTRRFSTIV</p> <p>EEGHEGLTHF LMNEVIKLQQ QMKAKDLQRC ELLARLRQLE DEKKQMTLTR VELLTFQERY</p> <p>YKMKEERDSY NDELVKVKDD NYNLMRYAQ LSEEKNMAVM RSRDLQLEID QLKHRLNKME</p> <p>EECKLERNQS LKLKNDIENR PKKEQVLELE RENEMLKTKN QELQSIIQAG KRSLPDSKA</p> <p>ILDILEHDRK EALEDRQELV NRIYNLQEEA RQAEELRDY LEEKEDLELK CSTLGKDCM</p> <p>YKHRMNTVML QLEEVERERD QAFHSRDEAQ TQYSQCLIEK DKYRKQIREL EEKNDEMRIE</p> <p>MVRREACIVN LESKLRRLSK DSNLDQSLP RNLPTIISQ DFGDASPRTN GQEADDSSTS</p> <p>EESPEDSKYF LPYHPPQRRM NLKGIQLQRA KSPISLKRTS DFQAKGHEEE GTDASPSSCG</p> <p>SLPITNSFTK MQPPRSRSSI MSITAEPGN DSIVRRYKED APHRSTVEED NDSGGFDALD</p> <p>LDDDSHERYS FGPSSIHSSS SSHQSEGLDA YDLEQVNLMF RKFSLERPFR PSVTSVGHVR</p>

GPGPSVQHTT LNGDSLTSQL TLLGGNARGS FVHSVKGPSL AEKAGLREGH QLLLLEG CIR
GERQSVPLDT CTKEEAHWI QRCSGPVTLH YKVNHEGYRK LVKDMEDGLI TSGDSFYIRL
NLNISSQLDA CTMSLKDDV VHVRDTMYQD RHEWLCARVD PFTDHDLD MG TIPSYSRAQQ
LLLVLQRLM HRGSREEVDG THHTLRALRN TLQPEEALST SDPRVSPRLS RASFLFGQLL
QFVSRSENKY KRMNSNERVR IISGSPLGSL ARSSLDATKL L TEKQEELDP ESELGKNLSL
IPYSLVRAFY CERRRPVLFT PTVLAKTLVQ RLLNSGGAME FTICKSDIVT RDEFLRRQKT
ETIYSREKN PNAFECIAPA NIEAVAAKNK HCLLEAGIGC TRDLIKSNIY PIVLFIRVCE KNIKRFRKLL
PRPETEEEF L RVCRLKEKEL EALPCLYATV EPDMWGSVEE LLRVVKDKIG EEQRKTIWVD EDQL

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:

Product Details

- 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.
- 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: CARD11

Alternative Name: CARD11 ([CARD11 Products](#))

Background: Caspase recruitment domain-containing protein 11 (CARD-containing MAGUK protein 1) (Carma 1),FUNCTION: Adapter protein that plays a key role in adaptive immune response by transducing the activation of NF-kappa-B downstream of T-cell receptor (TCR) and B-cell receptor (BCR) engagement (PubMed:11278692, PubMed:11356195, PubMed:12356734). Transduces signals downstream TCR or BCR activation via the formation of a multiprotein complex together with BCL10 and MALT1 that induces NF-kappa-B and MAP kinase p38 (MAPK11, MAPK12, MAPK13 and/or MAPK14) pathways (PubMed:11356195). Upon activation in response to TCR or BCR triggering, CARD11 homooligomerizes to form a nucleating helical template that recruits BCL10 via CARD-CARD interaction, thereby promoting polymerization of BCL10 and subsequent recruitment of MALT1: this leads to I-kappa-B kinase (IKK) phosphorylation and degradation, and release of NF-kappa-B proteins for nuclear translocation (PubMed:24074955). Its binding to DPP4 induces T-cell proliferation and NF-kappa-B activation in a T-cell receptor/CD3-dependent manner (PubMed:17287217). Promotes linear ubiquitination of BCL10 by promoting the targeting of BCL10 to RNF31/HOIP (PubMed:27777308). Stimulates the phosphorylation of BCL10 (PubMed:11356195). Also activates the TORC1 signaling pathway (PubMed:28628108).
{ECO:0000269|PubMed:11278692, ECO:0000269|PubMed:11356195, ECO:0000269|PubMed:12356734, ECO:0000269|PubMed:17287217, ECO:0000269|PubMed:24074955, ECO:0000269|PubMed:27777308, ECO:0000269|PubMed:28628108}.

Molecular Weight: 133.3 kDa

Target Details

UniProt: [Q9BXL7](#)

Pathways: [TCR Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [BCR 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 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 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!

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