Datasheet for ABIN3136496

CARD11 Protein (AA 1-1159) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	CARD11
Protein Characteristics:	AA 1-1159
Origin:	Mouse
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:	MPGGGPAMDD YMETLKDEEE ALWDNVECNR HMLSRYINPA KLTPYLRQCK VIDEQDEDEV LNAPMLPSKI NRAGRLLDIL HTKGQRGYVV FLESLEFYYP ELYKLVTGKE PTRRFSTIVV EEGHEGLTHF LMNEVIKLQQ QVKAKDLQRC ELLAKSRQLE DEKKQLSLIR VELLTFQERY YKMKEERDSY NDELVKVKDD NYNLAMRYAQ LSEEKNMAVM RSRDLQLEID QLKHRLNKME EECKLERNQS LKLKNDIENR PRKEQVLELE RENEMLKTKI QELQSIIQAG KRSLPDSDKA ILDILEHDRK EALEDRQELV NKIYNLQEEV RQAEELRDKY LEEKEDLELK CSTLGKDCEM YKHRMNTVML QLEEVERERD QAFHSRDEAQ TQYSQCLIEK DKYRKQIREL EEKNDEMRIE MVRREACIVN LESKLRRLSK DNGSLDQSLP RHLPATIISQ NLGDTSPRTN GQEADDSSTS EESPEDSKYF LPYHPPRRRM NLKGIQLQRA KSPISMKQAS EFQALMRTVK GHEEDFTDGS PSSSRSLPVT SSFSKMQPHR SRSSIMSITA EPPGNDSIVR RCKEDAPHRS TVEEDNDSCG FDALDLDDEN HERYSFGPPS IHSSSSSHQS EGLDAYDLEQ VNLMLRKFSL ERPFRPSVTS

GGHVRGTGPL VQHTTLNGDG LITQLTLLGG NARGSFIHSV KPGSLAERAG LREGHQLLLL EGCIRGERQS VPLDACTKEE ARWTIQRCSG LITLHYKVNH EGYRKLLKEM EDGLITSGDS FYIRLNLNIS SQLDACSMSL KCDDVVHVLD TMYQDRHEWL CARVDPFTDQ DLDTGTIPSY SRAQQLLLVK LQRLVHRGNR EEADSAHHTL RSLRNTLQPE EMLSTSDPRV SPRLSRASFF FGQLLQFVSR SENKYKRMNS NERVRIISGS PLGSLSRSSL DATKLLTEKH EELDPENELS RNLTLIPYSL VRAFHCERRR PVLFTPTMLA KTLVQKLLNS GGAMEFTICK SDIVTRDEFL RKQKTETIIY SREKNPNTFE CIVPANIEAV AAKNKHCLLE AGIGCVRDLI KCKVYPIVLL IRVSEKNIKR FRKLLPRPET EEEFLRVCRL KEKELEALPC LYATVEAEMW SSVEELLRVL KDKIVEEQRK TIWVDEDQL

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!

Product Details

	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. • 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:12356734, PubMed:12154356, PubMed:16356855). 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:12356734, PubMed:12154356, PubMed:16356855). 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 (By similarity). Its binding to DPP4 induces T-cell proliferation and NF-kappa-B activation in a T-cell receptor/CD3-dependent manner (By similarity). Promotes linear ubiquitination of BCL10 by promoting the targeting of BCL10 to RNF31/HOIP (By similarity). Stimulates the phosphorylation of BCL10 (By similarity). Also activates the TORC1 signaling pathway (By similarity). {ECO:0000250|UniProtKB:Q9BXL7, ECO:0000269|PubMed:12154356, ECO:0000269|PubMed:12356734, ECO:0000269|PubMed:16356855}.
Molecular Weight:	134.0 kDa
UniProt:	Q8CIS0

Target Details

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