Datasheet for ABIN7564599

CARD11 Protein (AA 1-1159) (His tag)

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Overview

Quantity:	1 mg
Target:	CARD11
Protein Characteristics:	AA 1-1159
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CARD11 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Card11 Protein expressed in mammalien cells.
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

Product Details

	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 Purification-Tag is based on experiences 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 to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • 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. If you are not interested in a full length protein, please contact us for individual protein fragments. 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.
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
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

Target Details

	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
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.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.

Handling

Expiry Date:	12 months