

Datasheet for ABIN7552839

CARD11 Protein (AA 1-1154) (His tag)



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Overview

Quantity:	1 mg
Target:	CARD11
Protein Characteristics:	AA 1-1154
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CARD11 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant CARD11 Protein expressed in mammalian cells.
Sequence:	MPGGGPEMDD YMETLKDEED ALWENVECNR HMLSRYPINPA KLTPYLRQCK VIDEQDEDEV LNAPMLPSKI NRAGRLLDIL HTKGQRGYV FLESLEFYYP ELYKLVTGKE PTRRFSTIVV EEGHEGLTHF LMNEVIKLQQ QMKAKDLQRC ELLARLRQLE DEKKQMTLTR VELLTFQERY YKMKEERDSY NDELVKVKDD NYNLAMRYAQ LSEEKNMAVM RSRDLQLEID QLKHLNKMME EECKLERNQS LKLKNDIENR PKKEQVLELE RENEMLKTKN QELQSIIQAG KRSLPDSDKA ILDILEHDRK EALDRQELV NRIYNLQEEA RQAEELRDY LEEKEDLELK CSTLGKDCM YKHRMNTVML QLEEVERERD QAFHSRDEAQ TQYSQCLIEK DKYRKQIREL EEKNDEMRIE MVRREACIVN LESKLRLRSK DSNLDQSLP RNLPTIISQ DFGDASPRTN GQEADDSSSTS EESPEDSKYF LPYHPPQRRM NLKGIQLQRA KSPISLKRTS DFQAKGHEEE GTDASPSSCG SLPITNSFTK MQPPRSRSSI MSITAEPGN DSIVRRYKED APHRSTVEED NDSGGFDALD LDDDSHERYS FGPSSIHSSS SSHQSEGLDA YDLEQVNLMF RKFSLERPFR PSVTSVGHVR GPGPSVQHTT LNGDSLTSQL TLLGGNARGS FVHSVKPGSL AEKAGLREGH QLLLEGCIR

Product Details

GERQSVPLDT CTKEEAHWIT QRCSGPVTLH YKVNHEGYRK LVKDMEDGLI TSGDSFYIRL
NLNISSQLDA CTMSLKCDV VHVRDTMYQD RHEWLCARVD PFTDHDLDGMG TIPSYSRAQQ
LLLVLKQRLM HRGSREEVDG THHTLRALRN TLQPEEALST SDPRVSPRLS RASFLFGQLL
QFVSRSENY KRMNSNERVR IISGSPLGSL ARSSLDATKL LTEKQEELDP 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 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.

Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian 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, anti-tag ELISA, 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)

Target Details

(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
UniProt:	Q9BXL7
Pathways:	TCR Signaling , Fc-epsilon Receptor Signaling Pathway , BCR Signaling

Application Details

Application Notes:	We expect the protein to work for functional studies. 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.

Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months