Datasheet for ABIN7555705

TICAM1 Protein (AA 1-712) (His tag)

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Overview

Quantity:	1 mg
Target:	TICAM1
Protein Characteristics:	AA 1-712
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TICAM1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat TICAM1 Protein expressed in mammalien cells.
Sequence:	MACTGPSLPS AFDILGAAGQ DKLLYLKHKL KTPRPGCQGQ DLLHAMVLLK LGQETEARIS LEALKADAVA RLVARQWAGV DSTEDPEEPP DVSWAVARLY HLLAEEKLCP ASLRDVAYQE AVRTLSSRDD HRLGELQDEA RNRCGWDIAG DPGSIRTLQS NLGCLPPSSA LPSGTRSLPR PIDGVSDWSQ GCSLRSTGSP ASLASNLEIS QSPTMPFLSL HRSPHGPSKL CDDPQASLVP EPVPGGCQEP EEMSWPPSGE IASPPELPSS PPPGLPEVAP DATSTGLPDT PAAPETSTNY PVECTEGSAG PQSLPLPILE PVKNPCSVKD QTPLQLSVED TTSPNTKPCP PTPTTPETSP PPPPPPPSST PCSAHLTPSS LFPSSLESSS EQKFYNFVIL HARADEHIAL RVREKLEALG VPDGATFCED FQVPGRGELS CLQDAIDHSA FIILLLTSNF DCRLSLHQVN QAMMSNLTRQ GSPDCVIPFL PLESSPAQLS SDTASLLSGL VRLDEHSQIF ARKVANTFKP HRLQARKAMW RKEQDTRALR EQSQHLDGER MQAAALNAAY SAYLQSYLSY QAQMEQLQVA FGSHMSFGTG APYGARMPFG GQVPLGAPPP FPTWPGCPQP PPLHAWQAGT PPPPSPQPAA FPQSLPFPQS

Product Details

	PAFPTASPAP PQSPGLQPLI IHHAQMVQLG LNNHMWNQRG SQAPEDKTQE AE **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:	TICAM1
Alternative Name:	TICAM1 (TICAM1 Products)
Background:	TIR domain-containing adapter molecule 1 (TICAM-1) (Proline-rich, vinculin and TIR domain-containing protein B) (Putative NF-kappa-B-activating protein 502H) (Toll-interleukin-1 receptor domain-containing adapter protein inducing interferon beta) (MyD88-3) (TIR domain-containing adapter protein inducing IFN-beta),FUNCTION: Involved in innate immunity against invading pathogens. Adapter used by TLR3, TLR4 (through TICAM2) and TLR5 to mediate NF-kappa-B and interferon-regulatory factor (IRF) activation, and to induce apoptosis (PubMed:12471095, PubMed:12539043, PubMed:14739303, PubMed:28747347). Ligand binding to these receptors results in TRIF recruitment through its TIR domain (PubMed:12471095, PubMed:12539043, PubMed:14739303). Distinct protein-interaction motifs allow recruitment of the effector

Target Details

	proteins TBK1, TRAF6 and RIPK1, which in turn, lead to the activation of transcription factors IRF3 and IRF7, NF-kappa-B and FADD respectively (PubMed:12471095, PubMed:12539043, PubMed:14739303). Phosphorylation by TBK1 on the pLxIS motif leads to recruitment and subsequent activation of the transcription factor IRF3 to induce expression of type I interferon and exert a potent immunity against invading pathogens (PubMed:25636800). Component of a multi-helicase-TICAM1 complex that acts as a cytoplasmic sensor of viral double-stranded RNA (dsRNA) and plays a role in the activation of a cascade of antiviral responses including the induction of pro-inflammatory cytokines (By similarity). {ECO:0000250|UniProtKB:Q80UF7, ECO:0000269|PubMed:12471095, ECO:0000269|PubMed:12539043, ECO:0000269|PubMed:14739303, ECO:0000269|PubMed:25636800}.
Molecular Weight:	76.4 kDa
UniProt:	Q8IUC6
Pathways:	TLR Signaling, Activation of Innate immune Response, Cellular Response to Molecule of Bacterial Origin, Hepatitis C, Toll-Like Receptors Cascades

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.
Expiry Date:	12 months