Datasheet for ABIN3135304

TRAF3 Protein (AA 1-567) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	TRAF3
Protein Characteristics:	AA 1-567
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRAF3 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MESSKKMDAA GTLQPNPPLK LQPDRGAGSV LVPEQGGYKE KFVKTVEDKY KCEKCRLVLC NPKQTECGHR FCESCMAALL SSSSPKCTAC QESIIKDKVF KDNCCKREIL ALQVYCRNEG RGCAEQLTLG HLLVHLKNEC QFEELPCLRA DCKEKVLRKD LRDHVEKACK YREATCSHCK SQVPMIKLQK HEDTDCPCVV VSCPHKCSVQ TLLRSELSAH LSECVNAPST CSFKRYGCVF QGTNQQIKAH EASSAVQHVN LLKEWSNSLE KKVSLLQNES VEKNKSIQSL HNQICSFEIE IERQKEMLRN NESKILHLQR VIDSQAEKLK ELDKEIRPFR QNWEEADSMK SSVESLQNRV TELESVDKSA GQAARNTGLL ESQLSRHDQM LSVHDIRLAD MDLRFQVLET ASYNGVLIWK IRDYKRRKQE AVMGKTLSLY SQPFYTGYFG YKMCARVYLN GDGMGKGTHL SLFFVIMRGE YDALLPWPFK QKVTLMLMDQ GSSRRHLGDA FKPDPNSSSF KKPTGEMNIA SGCPVFVAQT VLENGTYIKD DTIFIKVIVD TSDLPDP **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: • 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:	TRAF3
Alternative Name:	Traf3 (TRAF3 Products)
Background:	TNF receptor-associated factor 3 (EC 2.3.2.27) (CD40 receptor-associated factor 1) (CRAF1) (CD40-binding protein) (CD40BP) (RING-type E3 ubiquitin transferase TRAF3),FUNCTION: Cytoplasmic E3 ubiquitin ligase that regulates various signaling pathways, such as the NF-kappa-B, mitogen-activated protein kinase (MAPK) and interferon regulatory factor (IRF) pathways, and thus controls a lot of biological processes in both immune and non-immune cell types (PubMed:17015635). In TLR and RLR signaling pathways, acts as an E3 ubiquitin ligase promoting the synthesis of 'Lys-63'-linked polyubiquitin chains on several substrates such as ASC that lead to the activation of the type I interferon response or the inflammasome (PubMed:19898473, PubMed:23871208, PubMed:26305951, PubMed:23150880). Following the activation of certain TLRs such as TLR4, acts as a negative NF-kappa-B regulator, possibly to avoid unregulated inflammatory response, and its degradation via 'Lys-48'-linked polyubiquitination is required for MAPK activation and production of inflammatory cytokines (PubMed:16306937). Alternatively, when TLR4 orchestrates bacterial expulsion, TRAF3 undergoes 'Lys-33'-linked polyubiquitination and subsequently binds to RALGDS, mobilizing the exocyst complex to rapidly expel intracellular bacteria back for clearance. Acts also as a constitutive negative regulator of the alternative NF-kappa-B pathway, which controls B-cell survival and lymphoid organ development (PubMed:17723217). Required for normal antibody isotype switching from IgM to IgG (PubMed:19228877). Plays a role T-cell dependent immune responses (PubMed:8934568). Down-regulates proteolytic processing of NFKB2, and thereby inhibits non-canonical activation of NF-kappa-B. Promotes ubiquitination and proteasomal degradation of MAP3K14. {ECO:0000269|PubMed:16306936, ECO:0000269|PubMed:16306937, ECO:0000269|PubMed:17015635, ECO:0000269|PubMed:17158868, ECO:0000269|PubMed:17723217, ECO:0000269|PubMed:18313334, ECO:0000269|PubMed:18997792, ECO:0000269|PubMed:18997794, ECO:0000269|PubMed:19228877, ECO:0000269|PubMed:19898473, ECO:0000269|PubMed:26305951, ECO:0000269|PubMed:26474655, ECO:0000269|PubMed:30579117, ECO:0000269|PubMed:8934568}.
Molecular Weight:	64.3 kDa
UniProt:	Q60803
Pathways:	NF-kappaB Signaling, Apoptosis, TLR Signaling, Activation of Innate immune Response, 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.
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