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Datasheet for ABIN3134619

TRAF6 Protein (AA 1-530) (His tag)

1 Image

Overview

Quantity:	1 mg
Target:	TRAF6
Protein Characteristics:	AA 1-530
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TRAF6 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence: MSLINCENSC GSSQSSSDCC AAMAASCSAA VKDDSVSGSA STGNLSSSFM EEIQGYDVEF
DPPLESKYEC PICLMALREA VQTPCGHRFC KACIIKSIRD AGHKCPVDNE ILLENQLFPD
NFAKREILSL TVKCPNKGCL QKMELRHLED HQVHCEFALV NCPQCQRPFQ KCQVNTHIIE
DCPRRQVSCV NCAVSMAYEE KEIHDQSCPL ANIICEYCGT ILIREQMPNH YDLDCPTAPI
PCTFSVFGCH EKMQRNHLAR HLQENTQLHM RLLAQAVHNV NLALRPCDAA SPSRGCRPED
PNEYETIKQL ESRLVRQDHQ IRELTAKMET QSMYVGELKR TIRLEDKVA EMEAQQCNGI
YIWKIGNFGM HLKSQEEERP VVIHSPGFYT GRPGYKLCMR LHLQLPTAQR CANYISLFVH
TMQGEYDSDL PWPFGGTIRL TILDQSEALI RQNHEEVMDA KPELLAFQRP TIPRNPKGFG
YVTFMHLEAL RQGTFIKDDT LLVRCVSTR FDMGGLRKEG FQPRSTDAGV

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Product Details

- Characteristics:
- Made in Germany - from design to production - by highly experienced protein experts.
 - Mouse Traf6 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
 - 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 will ensure that you receive a correctly folded 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

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- Purification:
- Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity: >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility: 0.22 µm filtered

Endotoxin Level: Protein is endotoxin free.

Grade: Crystallography grade

Target Details

Target:	TRAF6
Alternative Name:	Traf6 (TRAF6 Products)
Background:	<p>E3 ubiquitin ligase that, together with UBE2N and UBE2V1, mediates the synthesis of 'Lys-63'-linked-polyubiquitin chains conjugated to proteins, such as IKBKG, IRAK1, AKT1 and AKT2. Also mediates ubiquitination of free/unanchored polyubiquitin chain that leads to MAP3K7 activation (By similarity). Leads to the activation of NF-kappa-B and JUN. May be essential for the formation of functional osteoclasts. Seems to also play a role in dendritic cells (DCs) maturation and/or activation. Represses c-Myb-mediated transactivation, in B-lymphocytes. Adapter protein that seems to play a role in signal transduction initiated via TNF receptor, IL-1 receptor and IL-17 receptor. Regulates osteoclast differentiation by mediating the activation of adapter protein complex 1 (AP-1) and NF-kappa-B, in response to RANK-L stimulation. Together with MAP3K8, mediates CD40 signals that activate ERK in B-cells and macrophages, and thus may play a role in the regulation of immunoglobulin production. {ECO:0000250, ECO:0000269 PubMed:10215628, ECO:0000269 PubMed:10421844, ECO:0000269 PubMed:12881420, ECO:0000269 PubMed:14499111, ECO:0000269 PubMed:15322147, ECO:0000269 PubMed:17092936, ECO:0000269 PubMed:17633018}.</p>
Molecular Weight:	61.0 kDa Including tag.
UniProt:	P70196
Pathways:	NF-kappaB Signaling , TCR Signaling , TLR Signaling , Fc-epsilon Receptor Signaling Pathway , Neurotrophin Signaling Pathway , Activation of Innate immune Response , Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process , Production of Molecular Mediator of Immune Response , Tube Formation , Hepatitis C , Toll-Like Receptors Cascades , Ubiquitin Proteasome Pathway

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:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Application Details

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: 100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value 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: Unlimited (if stored properly)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process