antibodies

Datasheet for ABIN3095948 TNFAIP3 Protein (AA 440-790) (His tag)





Overview

Quantity:	1 mg
Target:	TNFAIP3
Protein Characteristics:	AA 440-790
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TNFAIP3 protein is labelled with His tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS), Crystallization (Crys)

Product Details

Sequence:	GEAYEPLAWN PEESTGGPHS APPTAPSPFL FSETTAMKCR SPGCPFTLNV QHNGFCERCH
	NARQLHASHA PDHTRHLDPG KCQACLQDVT RTFNGICSTC FKRTTAEASS SLSTSLPPSC
	HQRSKSDPSR LVRSPSPHSC HRAGNDAPAG CLSQAARTPG DRTGTSKCRK AGCVYFGTPE
	NKGFCTLCFI EYRENKHFAA ASGKVSPTAS RFQNTIPCLG RECGTLGSTM FEGYCQKCFI
	EAQNQRFHEA KRTEEQLRSS QRRDVPRTTQ STSRPKCARA SCKNILACRS EELCMECQHP
	NQRMGPGAHR GEPAPEDPPK QRCRAPACDH FGNAKCNGYC NECFQFKQMY G
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	• Made in Germany - from design to production - by highly experienced protein experts.
	Human TNFAIP3 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).

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Product Details	
	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 receival 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.
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:	TNFAIP3
Alternative Name:	TNFAIP3 (TNFAIP3 Products)
Background:	Ubiquitin-editing enzyme that contains both ubiquitin ligase and deubiquitinase activities.

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Involved in immune and inflammatory responses signaled by cytokines, such as TNF-alpha and
IL-1 beta, or pathogens via Toll-like receptors (TLRs) through terminating NF-kappa-B activity.
Essential component of a ubiquitin-editing protein complex, comprising also RNF11, ITCH and
TAX1BP1, that ensures the transient nature of inflammatory signaling pathways. In cooperation
with TAX1BP1 promotes disassembly of E2-E3 ubiquitin protein ligase complexes in IL-1R and
TNFR-1 pathways, affected are at least E3 ligases TRAF6, TRAF2 and BIRC2, and E2 ubiquitin-
conjugating enzymes UBE2N and UBE2D3. In cooperation with TAX1BP1 promotes
ubiquitination of UBE2N and proteasomal degradation of UBE2N and UBE2D3. Upon TNF
stimulation, deubiquitinates 'Lys-63'-polyubiquitin chains on RIPK1 and catalyzes the formation
of 'Lys-48'-polyubiquitin chains. This leads to RIPK1 proteasomal degradation and consequently
termination of the TNF- or LPS-mediated activation of NF-kappa-B. Deubiquitinates TRAF6
probably acting on 'Lys-63'-linked polyubiquitin. Upon T-cell receptor (TCR)-mediated T-cell
activation, deubiquitinates 'Lys-63'-polyubiquitin chains on MALT1 thereby mediating
disassociation of the CBM (CARD11:BCL10:MALT1) and IKK complexes and preventing
sustained IKK activation. Deubiquitinates NEMO/IKBKG, the function is facilitated by TNIP1 and
leads to inhibition of NF-kappa-B activation. Upon stimulation by bacterial peptidoglycans,
probably deubiquitinates RIPK2. Can also inhibit I-kappa-B-kinase (IKK) through a non-catalytic
mechanism which involves polyubiquitin, polyubiquitin promotes association with IKBKG and
prevents IKK MAP3K7-mediated phosphorylation. Targets TRAF2 for lysosomal degradation. In
vitro able to deubiquitinate 'Lys-11'-, 'Lys-48'- and 'Lys-63' polyubiquitin chains. Inhibitor of
programmed cell death. Has a role in the function of the lymphoid system. Required for LPS-
induced production of proinflammatory cytokines and IFN beta in LPS-tolerized macrophages.
{ECO:0000269 PubMed:14748687, ECO:0000269 PubMed:15258597,
ECO:0000269 PubMed:16684768, ECO:0000269 PubMed:17961127,
ECO:0000269 PubMed:18164316, ECO:0000269 PubMed:18952128,
ECO:0000269 PubMed:19494296, ECO:0000269 PubMed:22099304,
ECO:0000269 PubMed:23827681, ECO:0000269 PubMed:8692885,
ECO:0000269 PubMed:9299557, ECO:0000269 PubMed:9882303}.
20.6 kDa Induding tag

Molecular Weight:	39.6 kDa Including tag.
UniProt:	P21580
Pathways:	TLR Signaling, Activation of Innate immune Response, Cellular Response to Molecule of
	Bacterial Origin, Production of Molecular Mediator of Immune Response

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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 gurantee though.
Comment:	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.
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

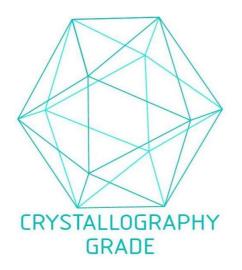


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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