Datasheet for ABIN3096063

THRAP3 Protein (AA 2-955) (His tag)

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Overview

Quantity:	1 mg
Target:	THRAP3
Protein Characteristics:	AA 2-955
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This THRAP3 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	SKTNKSKSGS RSSRSRSASR SRSRSFSKSR SRSRSLSRSR KRRLSSRSRS RSYSPAHNRE RNHPRVYQNR DFRGHNRGYR RPYYFRGRNR GFYPWGQYNR GGYGNYRSNW QNYRQAYSPR RGRSRSRSPK RRSPSPRSRS HSRNSDKSSS DRSRRSSSSR SSSNHSRVES SKRKSAKEKK SSSKDSRPSQ AAGDNQGDEA KEQTFSGGTS QDTKASESSK PWPDATYGTG SASRASAVSE LSPRERSPAL KSPLQSVVVR RRSPRPSPVP KPSPPLSSTS QMGSTLPSGA GYQSGTHQGQ FDHGSGSLSP SKKSPVGKSP PSTGSTYGSS QKEESAASGG AAYTKRYLEE QKTENGKDKE QKQTNTDKEK IKEKGSFSDT GLGDGKMKSD SFAPKTDSEK PFRGSQSPKR YKLRDDFEKK MADFHKEEMD DQDKDKAKGR KESEFDDEPK FMSKVIGANK NQEEEKSGKW EGLVYAPPGK EKQRKTEELE EESFPERSKK EDRGKRSEGG HRGFVPEKNF RVTAYKAVQE KSSSPPPRKT SESRDKLGAK GDFPTGKSSF SITREAQVNV RMDSFDEDLA RPSGLLAQER KLCRDLVHSN KKEQEFRSIF QHIQSAQSQR SPSELFAQHI VTIVHHVKEH HFGSSGMTLH ERFTKYLKRG TEQEAAKNKK SPEIHRRIDI SPSTFRKHGL AHDEMKSPRE PGYKAEGKYK DDPVDLRLDI

	ERRKKHKERD LKRGKSRESV DSRDSSHSRE RSAEKTEKTH KGSKKQKKHR RARDRSRSSS SSSQSSHSYK AEEYTEETEE REESTTGFDK SRLGTKDFVG PSERGGGRAR GTFQFRARGR GWGRGNYSGN NNNNSNNDFQ KRNREEEWDP EYTPKSKKYY LHDDREGEGS DKWVSRGRGR GAFPRGRGRF MFRKSSTSPK WAHDKFSGEE GEIEDDESGT ENREEKDNIQ PTTE **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 THRAP3 Protein (raised in E. Coli) 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 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 bacterial culture: 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.

Product Details

Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	THRAP3
Alternative Name:	THRAP3 (THRAP3 Products)
Background:	Involved in pre-mRNA splicing. Remains associated with spliced mRNA after splicing which probably involves interactions with the exon junction complex (EJC). Can trigger mRNA decay which seems to be independent of nonsense-mediated decay involving premature stop codons (PTC) recognition. May be involved in nuclear mRNA decay. Involved in regulation of signal-induced alternative splicing. During splicing of PTPRC/CD45 is proposed to sequester phosphorylated SFPQ from PTPRC/CD45 pre-mRNA in resting T-cells. Involved in cyclin-D1/CCND1 mRNA stability probably by acting as component of the SNARP complex which associates with both the 3'end of the CCND1 gene and its mRNA. Involved in response to DNA damage. Is excluced from DNA damage sites in a manner that parallels transcription inhibition, the function may involve the SNARP complex. Initially thought to play a role in transcriptional coactivation through its association with the TRAP complex, however, it is not regarded as a stable Mediator complex subunit. Cooperatively with HELZ2, enhances the transcriptional activation mediated by PPARG, maybe through the stabilization of the PPARG binding to DNA in presence of ligand. May play a role in the terminal stage of adipocyte differentiation. Plays a role in the positive regulation of the circadian clock. Acts as a coactivator of the CLOCK-ARNTL/BMAL1 heterodimer and promotes its transcriptional activator activity and binding to circadian target genes (PubMed:24043798). {ECO:0000269|PubMed:20123736, ECO:0000269|PubMed:20932480, ECO:0000269|PubMed:22424773, ECO:0000269|PubMed:23525231, ECO:0000269|PubMed:24043798}.
Molecular Weight:	109.5 kDa Including tag.
UniProt:	Q9Y2W1
Pathways:	Intracellular Steroid Hormone Receptor Signaling Pathway

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies

Application Details

	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)