Datasheet for ABIN3096238

USP8 Protein (AA 1-1118) (His tag)

1 Image

Go to Product page

Overview

Quantity:	1 mg
Target:	USP8
Protein Characteristics:	AA 1-1118
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This USP8 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	MPAVASVPKE LYLSSSLKDL NKKTEVKPEK ISTKSYVHSA LKIFKTAEEC RLDRDEERAY VLYMKYVTVY NLIKKRPDFK QQQDYFHSIL GPGNIKKAVE EAERLSESLK LRYEEAEVRK KLEEKDRQEE AQRLQQKRQE TGREDGGTLA KGSLENVLDS KDKTQKSNGE KNEKCETKEK GAITAKELYT MMTDKNISLI IMDARRMQDY QDSCILHSLS VPEEAISPGV TASWIEAHLP DDSKDTWKKR GNVEYVVLLD WFSSAKDLQI GTTLRSLKDA LFKWESKTVL RNEPLVLEGG YENWLLCYPQ YTTNAKVTPP PRRQNEEVSI SLDFTYPSLE ESIPSKPAAQ TPPASIEVDE NIELISGQNE RMGPLNISTP VEPVAASKSD VSPIIQPVPS IKNVPQIDRT KKPAVKLPEE HRIKSESTNH EQQSPQSGKV IPDRSTKPVV FSPTLMLTDE EKARIHAETA LLMEKNKQEK ELRERQQEEQ KEKLRKEEQE QKAKKKQEAE ENEITEKQQK AKEEMEKKES EQAKKEDKET SAKRGKEITG VKRQSKSEHE TSDAKKSVED RGKRCPTPEI QKKSTGDVPH TSVTGDSGSG KPFKIKGQPE SGILRTGTFR EDTDDTERNK AQREPLTRAR SEEMGRIVPG LPSGWAKFLD PITGTFRYYH SPTNTVHMYP PEMAPSSAPP STPPTHKAKP QIPAERDREP SKLKRSYSSP

	DITQAIQEEE KRKPTVTPTV NRENKPTCYP KAEISRLSAS QIRNLNPVFG GSGPALTGLR NLGNTCYMNS ILQCLCNAPH LADYFNRNCY QDDINRSNLL GHKGEVAEEF GIIMKALWTG QYRYISPKDF KITIGKINDQ FAGYSQQDSQ ELLLFLMDGL HEDLNKADNR KRYKEENNDH LDDFKAAEHA WQKHKQLNES IIVALFQGQF KSTVQCLTCH KKSRTFEAFM YLSLPLASTS KCTLQDCLRL FSKEEKLTDN NRFYCSHCRA RRDSLKKIEI WKLPPVLLVH LKRFSYDGRW KQKLQTSVDF PLENLDLSQY VIGPKNNLKK YNLFSVSNHY GGLDGGHYTA YCKNAARQRW FKFDDHEVSD ISVSSVKSSA AYILFYTSLG PRVTDVAT **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 USP8 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 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

Product Details

	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:	USP8
Alternative Name:	USP8 (USP8 Products)
Background:	Hydrolase that can remove conjugated ubiquitin from proteins and therefore plays an important regulatory role at the level of protein turnover by preventing degradation. Converts both 'Lys-48' an 'Lys-63'-linked ubiquitin chains. Catalytic activity is enhanced in the M phase. Involved in cell proliferation. Required to enter into S phase in response to serum stimulation. May regulate T-cell anergy mediated by RNF128 via the formation of a complex containing RNF128 and OTUB1. Probably regulates the stability of STAM2 and RASGRF1. Regulates endosomal ubiquitin dynamics, cargo sorting, membrane traffic at early endosomes, and maintenance of ESCRT-0 stability. The level of protein ubiquitination on endosomes is essential for maintaining the morphology of the organelle. Deubiquitinates EPS15 and controles tyrosine kinase stability. Removes conjugated ubiquitin from EGFR thus regulating EGFR degradation and downstream MAPK signaling. Involved in acrosome biogenesis through interaction with the spermatid ESCRT-0 complex and microtubules. Deubiquitinates BIRC6/bruce and KIF23/MKLP1. {ECO:0000269|PubMed:16520378, ECO:0000269|PubMed:17711858, ECO:0000269|PubMed:18329369, ECO:0000269|PubMed:9628861}.
Molecular Weight:	128.5 kDa Including tag.
UniProt:	P40818

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

Application Details

	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