Datasheet for ABIN3096192

UBE2O Protein (AA 1-1292) (His tag)

1 Image

Go to Product page

Overview

Quantity:	1 mg
Target:	UBE2O
Protein Characteristics:	AA 1-1292
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This UBE2O protein is labelled with His tag.
Application:	Western Blotting (WB), ELISA, Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MADPAAPTPA APAPAQAPAP APEAVPAPAA APVPAPAPAS DSASGPSSDS GPEAGSQRLL FSHDLVSGRY RGSVHFGLVR LIHGEDSDSE GEEEGRGSSG CSEAGGAGHE EGRASPLRRG YVRVQWYPEG VKQHVKETKL KLEDRSVVPR DVVRHMRSTD SQCGTVIDVN IDCAVKLIGT NCIIYPVNSK DLQHIWPFMY GDYIAYDCWL GKVYDLKNQI ILKLSNGARC SMNTEDGAKL YDVCPHVSDS GLFFDDSYGF YPGQVLIGPA KIFSSVQWLS GVKPVLSTKS KFRVVVEEVQ VVELKVTWIT KSFCPGGTDS VSPPPSVITQ ENLGRVKRLG CFDHAQRQLG ERCLYVFPAK VEPAKIAWEC PEKNCAQGEG SMAKKVKRLL KKQVVRIMSC SPDTQCSRDH SMEDPDKKGE SKTKSEAESA SPEETPDGSA SPVEMQDEGA EEPHEAGEQL PPFLLKEGRD DRLHSAEQDA DDEAADDTDD TSSVTSSASS TTSSQSGSGT SRKKSIPLSI KNLKRKHKRK KNKITRDFKP GDRVAVEVVT TMTSADVMWQ DGSVECNIRS NDLFPVHHLD NNEFCPGDFV VDKRVQSCPD PAVYGVVQSG DHIGRTCMVK WFKLRPSGDD VELIGEEEDV SVYDIADHPD FRFRTTDIVI RIGNTEDGAP HKEDEPSVGQ VARVDVSSKV EVVWADNSKT IILPQHLYNI ESEIEESDYD

	SVEGSTSGAS SDEWEDDSDS WETDNGLVED EHPKIEEPPI PPLEQPVAPE DKGVVISEEA ATAAVQGAVA MAAPMAGLME KAGKDGPPKS FRELKEAIKI LESLKNMTVE QLLTGSPTSP TVEPEKPTRE KKFLDDIKKL QENLKKTLDN VAIVEEEKME AVPDVERKED KPEGQSPVKA EWPSETPVLC QQCGGKPGVT FTSAKGEVFS VLEFAPSNHS FKKIEFQPPE AKKFFSTVRK EMALLATSLP EGIMVKTFED RMDLFSALIK GPTRTPYEDG LYLFDIQLPN IYPAVPPHFC YLSQCSGRLN PNLYDNGKVC VSLLGTWIGK GTERWTSKSS LLQVLISIQG LILVNEPYYN EAGFDSDRGL QEGYENSRCY NEMALIRVVQ SMTQLVRRPP EVFEQEIRQH FSTGGWRLVN RIESWLETHA LLEKAQALPN GVPKASSSPE PPAVAELSDS GQQEPEDGGP APGEASQGSD SEGGAQGLAS ASRDHTDQTS ETAPDASVPP SVKPKKRRKS YRSFLPEKSG YPDIGFPLFP LSKGFIKSIR GVLTQFRAAL LEAGMPECTE DK **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 UBE2O 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

Product Details

	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:	UBE2O
Alternative Name:	UBE2O (UBE2O Products)
Background:	E2/E3 hybrid ubiquitin-protein ligase that displays both E2 and E3 ligase activities and mediates monoubiquitination of target proteins (PubMed:23455153, PubMed:24703950). Negatively regulates TRAF6-mediated NF-kappa-B activation independently of its E2 activity (PubMed:23381138). Acts as a positive regulator of BMP7 signaling by mediating monoubiquitination of SMAD6, thereby regulating adipogenesis (PubMed:23455153). Mediates monoubiquitination at different sites of the nuclear localization signal (NLS) of BAP1, leading to cytoplasmic retention of BAP1. Also able to monoubiquitinate the NLS of other chromatin-associated proteins, such as INO80 and CXXC1, affecting their subcellular location (PubMed:24703950). Acts as a regulator of retrograde transport by assisting the TRIM27:MAGEL2 E3 ubiquitin ligase complex to mediate 'Lys-63'-linked ubiquitination of WASH1, leading to promote endosomal F-actin assembly (PubMed:23452853). {ECO:0000269|PubMed:23381138, ECO:0000269|PubMed:23452853, ECO:0000269|PubMed:23455153, ECO:0000269|PubMed:24703950}.
Molecular Weight:	142.2 kDa Including tag.
UniProt:	Q9C0C9

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

Application Details

	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

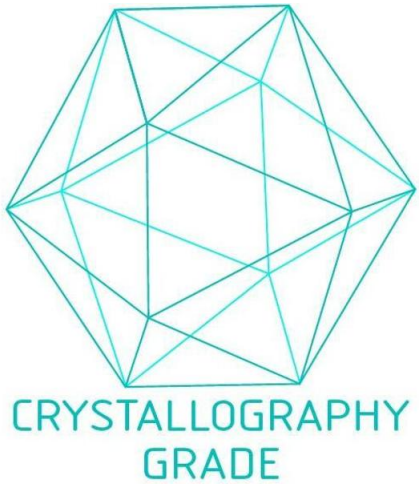

Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process