Datasheet for ABIN3136692

FBXW7 Protein (AA 1-629) (His tag)

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Overview

Quantity:	1 mg
Target:	FBXW7
Protein Characteristics:	AA 1-629
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FBXW7 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys)

Product Details

Sequence:	MRVCVPSSVL VLSCVCWCWG VLLPVPLPNL PFLACLSMST LESVTYLPEK GLYCQRLPSS RTHGGTESLK GKNTENMGFY GTLKMIFYKM KRKLDHGSEV RSFSLGKKPC KVSDYTSTTG LVPCSATPTT FGDLRAANGQ GQQRRRITSV QPPTGLQEWL KMFQSWSGPE KLLALDELID SCEPTQVKHM MQVIEPQFQR DFISLLPKEL ALYVLSFLEP KDLLQAAQTC RYWRILAEDN LLWREKCKEE GIDEPLHIKR RKIIKPGFIH SPWKSAYIRQ HRIDTNWRRG ELKSPKVLKG HDDHVITCLQ FCGNRIVSGS DDNTLKVWSA VTGKCLRTLV GHTGGVWSSQ MRDNIIISGS TDRTLKVWNA ETGECIHTLY GHTSTVRCMH LHEKRVVSGS RDATLRVWDI ETGQCLHVLM GHVAAVRCVQ YDGRRVVSGA YDFMVKVWDP ETETCLHTLQ GHTNRVYSLQ FDGIHVVSGS LDTSIRVWDV ETGNCIHTLT GHQSLTSGME LKDNILVSGN ADSTVKIWDI KTGQCLQTLQ GPSKHQSAVT CLQFNKNFVI TSSDDGTVKL WDLKTGEFIR NLVTLESGGS GGVVWRIRAS NTKLVCAVGS RNGTEETKLL VLDFDVDMK **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. • Mouse Fbxw7 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 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:	FBXW7
Alternative Name:	Fbxw7 (FBXW7 Products)
Background:	Substrate recognition component of an SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins. Recognizes and binds phosphorylated sites/phosphodegrons within target proteins and thereafter bring them to the SCF complex for ubiquitination. Identified substrates include cyclin-E (CCNE1 or CCNE2), JUN, MYC, NOTCH1 released notch intracellular domain (NICD), and probably PSEN1. Acts as a negative regulator of JNK signaling by binding to phosphorylated JUN and promoting its ubiquitination and subsequent degradation. {ECO:0000250|UniProtKB:Q969H0}.
Molecular Weight:	71.5 kDa Including tag.
UniProt:	Q8VBV4
Pathways:	Notch Signaling, EGFR Signaling 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 gurantee 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.
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)