Datasheet for ABIN7553917

FBXW11 Protein (AA 1-542) (His tag)

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Overview

Quantity:	1 mg
Target:	FBXW11
Protein Characteristics:	AA 1-542
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FBXW11 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant FBXW11 Protein expressed in mammalian cells.
Sequence:	MEPDSVIEDK TIELMCSVPR SLWLGCANLV ESMCALSCLQ SMPSVRCLQI SNGTSSVIVS RKRPSEGNYQ KEKDLCIKYF DQWSESDQVE FVEHLISRMC HYQHGHINSY LKPMLQRDFI TALPEQGLDH IAENILSYLD ARSLCAAELV CKEWQRVISE GMLWKKLIER MVRTDPLWKG LSERRGWDQY LFKNRPTDGP PNSFYRSLYP KIIQDIETIE SNWRCGRHNL QRIQCRSENS KGVYCLQYDD EKIISGLRDN SIKIWDKTSL ECLKVLTGHT GSVLCLQYDE RVIVTGSSDS TVRVWDVNTG EVLNTLIHHN EAVLHLRFSN GLMVTCSKDR SIAVWDMASA TDITLRRVLV GHRAAVNVVD FDDKYIVSAS GDRTIKVWST STCEFVRTLN GHKRGIACLQ YRDRLVVSGS SDNTIRLWDI ECGACLRVLE GHEELVRCIR FDNKRIVSGA YDGKIKVWDL QAALDPRAPA STLCLRTLVE HSGRVFRLQF DEFQIISSSH DDTILIWDFL NVPPSAQNET RSPSRTYTYI SR **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Product Details

Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • 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 try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. 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.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	FBXW11
Alternative Name:	FBXW11 (FBXW11 Products)
Background:	F-box/WD repeat-containing protein 11 (F-box and WD repeats protein beta-TrCP2) (F-box/WD repeat-containing protein 1B) (Homologous to Slimb protein) (HOS),FUNCTION: Substrate recognition component of a SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins (PubMed:10437795, PubMed:11158290, PubMed:10648623, PubMed:20347421, PubMed:19966869, PubMed:22017875, PubMed:22017876, PubMed:36608670). Probably recognizes and binds to phosphorylated target proteins: the interaction with substrates requires the phosphorylation of the two serine residues in the substrates' destruction motif D-S-G-X(2,3,4)-S (PubMed:10437795, PubMed:10648623, PubMed:20347421, PubMed:19966869, PubMed:22017875, PubMed:22017876, PubMed:36608670). SCF(FBXW11) mediates the ubiquitination of phosphorylated CTNNB1 and participates in Wnt signaling regulation

Target Details

	(PubMed:10321728). SCF(FBXW11) plays a key role in NF-kappa-B activation by mediating ubiquitination of phosphorylated NFKBIA, leading to its degradation by the proteasome, thereby allowing the associated NF-kappa-B complex to translocate into the nucleus and to activate transcription (PubMed:10321728, PubMed:10644755, PubMed:10437795, PubMed:20347421). The SCF(FBXW11) complex also regulates NF-kappa-B by mediating ubiquitination of phosphorylated NFKB1: specifically ubiquitinates the p105 form of NFKB1, leading to its degradation (PubMed:11158290). SCF(FBXW11) mediates the ubiquitination of IFNAR1 (PubMed:14532120, PubMed:15337770). SCF(FBXW11) mediates the ubiquitination of CEP68, this is required for centriole separation during mitosis (PubMed:25503564). Involved in the oxidative stress-induced a ubiquitin-mediated decrease in RCAN1 (PubMed:18575781). Mediates the degradation of CDC25A induced by ionizing radiation in cells progressing through S phase and thus may function in the intra-S-phase checkpoint (PubMed:14603323). Has an essential role in the control of the clock-dependent transcription via degradation of phosphorylated PER1 and phosphorylated PER2 (PubMed:15917222). SCF(FBXW11) mediates the ubiquitination of CYTH1, and probably CYTH2 (PubMed:29420262). SCF(FBXW11) acts as a regulator of mTORC1 signaling pathway by catalyzing ubiquitination and subsequent proteasomal degradation of phosphorylated DEPTOR, TFE3 and MITF (PubMed:22017875, PubMed:22017876, PubMed:36608670). {ECO:0000269|PubMed:10321728, ECO:0000269|PubMed:10437795, ECO:0000269|PubMed:10644755, ECO:0000269|PubMed:10648623, ECO:0000269|PubMed:11158290, ECO:0000269|PubMed:14532120, ECO:0000269|PubMed:14603323, ECO:0000269|PubMed:15337770, ECO:0000269|PubMed:15917222, ECO:0000269|PubMed:18575781, ECO:0000269|PubMed:19966869, ECO:0000269|PubMed:20347421, ECO:0000269|PubMed:22017875, ECO:0000269|PubMed:22017876, ECO:0000269|PubMed:25503564, ECO:0000269|PubMed:29420262, ECO:0000269|PubMed:36608670}., FUNCTION: (Microbial infection) Target of human immunodeficiency virus type 1 (HIV-1) protein VPU to polyubiquitinate and deplete BST2 from cells and antagonize its antiviral action. {ECO:0000269|PubMed:19730691}.
Molecular Weight:	62.1 kDa
UniProt:	Q9UKB1

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Application Details

Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition 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:	12 months

