Datasheet for ABIN7553894

FBXW7 Protein (AA 1-707) (His tag)

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Overview

Quantity:	1 mg
Target:	FBXW7
Protein Characteristics:	AA 1-707
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FBXW7 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat FBXW7 Protein expressed in mammalien cells.
Sequence:	MNQELLSVGS KRRRTGGSLR GNPSSSQVDE EQMNRVVEEE QQQQLRQQEE EHTARNGEVV GVEPRPGGQN DSQQGQLEEN NNRFISVDED SSGNQEEQEE DEEHAGEQDE EDEEEEEMDQ ESDDFDQSDD SSREDEHTHT NSVTNSSSIV DLPVHQLSSP FYTKTTKMKR KLDHGSEVRS FSLGKKPCKV SEYTSTTGLV PCSATPTTFG DLRAANGQGQ QRRRITSVQP PTGLQEWLKM FQSWSGPEKL LALDELIDSC EPTQVKHMMQ VIEPQFQRDF ISLLPKELAL YVLSFLEPKD LLQAAQTCRY WRILAEDNLL WREKCKEEGI DEPLHIKRRK VIKPGFIHSP WKSAYIRQHR IDTNWRRGEL KSPKVLKGHD DHVITCLQFC GNRIVSGSDD NTLKVWSAVT GKCLRTLVGH TGGVWSSQMR DNIIISGSTD RTLKVWNAET GECIHTLYGH TSTVRCMHLH EKRVVSGSRD ATLRVWDIET GQCLHVLMGH VAAVRCVQYD GRRVVSGAYD FMVKVWDPET ETCLHTLQGH TNRVYSLQFD GIHVVSGSLD TSIRVWDVET GNCIHTLTGH QSLTSGMELK DNILVSGNAD STVKIWDIKT GQCLQTLQGP NKHQSAVTCL QFNKNFVITS SDDGTVKLWD LKTGEFIRNL

Product Details

	VTLESGGSGG VVWRIRASNT KLVCAVGSRN GTEETKLLVL DFDVDMK **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.**
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien 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, Western Blot
Grade:	custom-made

Target Details

Target:	FBXW7
Alternative Name:	FBXW7 (FBXW7 Products)
Background:	F-box/WD repeat-containing protein 7 (Archipelago homolog) (hAgo) (F-box and WD-40 domain-containing protein 7) (F-box protein FBX30) (SEL-10) (hCdc4),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:22748924, PubMed:34741373, PubMed:17434132, PubMed:26976582, PubMed:28727686, PubMed:35395208). Recognizes and binds phosphorylated sites/phosphodegrons within target proteins and thereafter brings them to the SCF complex for ubiquitination (PubMed:22748924, PubMed:34741373, PubMed:26774286, PubMed:17434132, PubMed:26976582, PubMed:28727686). Identified substrates include cyclin-E (CCNE1 or

Target Details

	CCNE2), DISC1, JUN, MYC, NOTCH1 released notch intracellular domain (NICD), NFE2L1, NOTCH2, MCL1, MLST8, RICTOR, and probably PSEN1 (PubMed:11565034, PubMed:12354302, PubMed:11585921, PubMed:15103331, PubMed:14739463, PubMed:17558397, PubMed:17873522, PubMed:22608923, PubMed:22748924, PubMed:29149593, PubMed:25775507, PubMed:28007894, PubMed:26976582, PubMed:28727686, PubMed:25897075, PubMed:34102342). Acts as a negative regulator of JNK signaling by binding to phosphorylated JUN and promoting its ubiquitination and subsequent degradation (PubMed:14739463). Involved in bone homeostasis and negative regulation of osteoclast differentiation (PubMed:29149593). Regulates the amplitude of the cyclic expression of hepatic core clock genes and genes involved in lipid and glucose metabolism via ubiquitination and proteasomal degradation of their transcriptional repressor NR1D1, CDK1-dependent phosphorylation of NR1D1 is necessary for SCF(FBXW7)-mediated ubiquitination (PubMed:27238018). Also able to promote 'Lys-63'-linked ubiquitination in response to DNA damage (PubMed:26774286). The SCF(FBXW7) complex facilitates double-strand break repair following phosphorylation by ATM: phosphorylation promotes localization to sites of double-strand breaks and 'Lys-63'-linked ubiquitination of phosphorylated XRCC4, enhancing DNA non-homologous end joining (PubMed:26774286). {ECO:0000269|PubMed:11565034, ECO:0000269|PubMed:11585921, ECO:0000269|PubMed:14739463, ECO:0000269|PubMed:15103331, ECO:0000269|PubMed:17434132, ECO:0000269|PubMed:17558397, ECO:0000269|PubMed:17873522, ECO:0000269|PubMed:22608923, ECO:0000269|PubMed:22748924, ECO:0000269|PubMed:25775507, ECO:0000269|PubMed:25897075, ECO:0000269|PubMed:26774286, ECO:0000269|PubMed:26976582, ECO:0000269|PubMed:27238018, ECO:0000269|PubMed:28007894, ECO:0000269|PubMed:28727686, ECO:0000269|PubMed:29149593, ECO:0000269|PubMed:34102342, ECO:0000269|PubMed:34741373, ECO:0000269|PubMed:35395208, ECO:0000305|PubMed:12354302}.
Molecular Weight:	79.7 kDa
UniProt:	Q969H0
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

Application Details

	guarantee though.
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

