Datasheet for ABIN3137381

FBXW5 Protein (AA 1-573) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	FBXW5
Protein Characteristics:	AA 1-573
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FBXW5 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MDEGGLPLLP DSLVYQIFLS LGPADVLAAG LVCRQWQAVS RDEFLWKEQF YRYYQVARDV PRHPAATSWY EEFRRLYDMV PCVEVQTLKE HTDQVLHLSF SHSGYQFASC SKDCTVKIWN NDLTISLLHS ADMRPYNWSY TQFSQFNQDD SLLLASGVFL GPHNSSSGEI AVISLDSFAL LSRVRNKPYD VFGCWLTETS LISGNLHRIG DITSCSVLWL NNAFQDVESE NVNVVKRLFK IQNLNASTIR TVMVADCSRF DSPDLLLDAS DQAGLPCRVF DLGGDTEEEA TDPGLHTSGS DHVKKGLRRV FDSVLDGHGQ LSDCALETKV AELLAQGHTK PPECNDADTR NKYLIFTTGC LTYSPHQIGI KQILPHQMTT AGPVLGEGRG SDAFFDALDH VIDVHGHIIG MGLSPDNRYL YVNSRAWPPG SVVADPMQPP PIAEEIDLLV FDLKTMREVK RALRAHRAYT PNDECFFIFL DVSRDFVASG AEDRHGYIWD RHYNICLAKL RHEDVVNSVA FSPQEQELLL TASDDATIKA WRSPRIVRVL QAPRPRPRPR PRPFFSWFAS HRR **Sequence without tag. The proposed Strep-Tag is based on experience s 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 in Germany - from design to production - by highly experienced protein experts. • Protein expressed with ALiCE® and purified in one-step affinity chromatography • These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed). • 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. 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. Expression System: • ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. • During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein! Concentration: • The concentration of our recombinant proteins is measured using the absorbance at 280nm. • The protein's absorbance will be measured against its specific reference buffer. • We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.
Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	FBXW5
Alternative Name:	Fbxw5 (FBXW5 Products)
Background:	F-box/WD repeat-containing protein 5 (F-box and WD-40 domain-containing protein 5),FUNCTION: Substrate recognition component of both SCF (SKP1-CUL1-F-box protein) and DCX (DDB1-CUL4-X-box) E3 ubiquitin-protein ligase complexes. Substrate-specific adapter of the DCX(FBXW5) E3 ubiquitin-protein ligase complex which mediates the polyubiquitination and subsequent degradation of TSC2. May also act as a negative regulator of MAP3K7/TAK1 signaling in the interleukin-1B (IL1B) signaling pathway. Substrate recognition component of the SCF(FBXW5) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of SASS6 during S phase, leading to prevent centriole reduplication (By similarity). The SCF(FBXW5) complex also mediates ubiquitination and degradation of actin-regulator EPS8 during G2 phase, leading to the transient degradation of EPS8 and subsequent cell shape changes required to allow mitotic progression. {ECO:0000250, ECO:0000269|PubMed:23314863}.
Molecular Weight:	64.6 kDa
UniProt:	Q9QXW2

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 guarantee though.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months