Datasheet for ABIN7553908

FBXL2 Protein (AA 1-423) (His tag)

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Overview

Quantity:	1 mg
Target:	FBXL2
Protein Characteristics:	AA 1-423
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This FBXL2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant FBXL2 Protein expressed in mammalian cells.
Sequence:	MVFSNNDEGL INKKLPKELL LRIFSFLDIV TLCRCAQISK AWNILALDGS NWQRIDLFNF QTDVEGRVVE NISKRCGGFL RKLSLRGCIG VGDSSLKTFA QNCRNIEHLN LNGCTKITDS TCYSLSRFCS KLKHLDLTSC VSITNSSLKG ISEGCRNLEY LNLSWCDQIT KDGIEALVRG CRGLKALLLR GCTQLEDEAL KHIQNYCHEL VSLNLQSCSR ITDEGVVQIC RGCHRLQALC LSGCSNLTDA SLTALGLNCP RLQILEAARC SHLTDAGFTL LARNCHELEK MDLEECILIT DSTLIQLSIH CPKLQALSLS HCELITDDGI LHLSNSTCGH ERLRVLELDN CLLITDVALE HLENCRGLER LELYDCQQVT RAGIKRMRAQ LPHVKVHAYF APVTPPTAVA GSGQRLCRCC VIL **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.**
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.

Product Details

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:	FBXL2
Alternative Name:	FBXL2 (FBXL2 Products)
Background:	F-box/LRR-repeat protein 2 (F-box and leucine-rich repeat protein 2) (F-box protein FBL2/FBL3),FUNCTION: Calcium-activated substrate recognition component of the SCF (SKP1-cullin-F-box protein) E3 ubiquitin-protein ligase complex, SCF(FBXL2), which mediates the ubiquitination and subsequent proteasomal degradation of target proteins (PubMed:22020328, PubMed:22323446). Unlike many F-box proteins, FBXL2 does not seem to target phosphodegron within its substrates but rather calmodulin-binding motifs and is thereby antagonized by calmodulin (PubMed:22020328, PubMed:22323446). This is the case for the cyclins CCND2 and CCND3 which polyubiquitination and subsequent degradation are inhibited by calmodulin (PubMed:22020328, PubMed:22323446). Through CCND2 and CCND3 degradation induces cell-cycle arrest in G(0) (PubMed:22020328, PubMed:22323446). SCF(FBXL2) also mediates PIK3R2 ubiquitination and proteasomal degradation thereby regulating phosphatidylinositol 3-kinase signaling and autophagy (PubMed:23604317). PCYT1A monoubiquitination by SCF(FBXL2) and subsequent degradation regulates synthesis of

Target Details

	phosphatidylcholine, which is utilized for formation of membranes and of pulmonary surfactant (By similarity). The SCF(FBXL2) complex acts as a regulator of inflammation by mediating ubiquitination and degradation of TRAF proteins (TRAF1, TRAF2, TRAF3, TRAF4, TRAF5 and TRAF6) (By similarity). The SCF(FBXL2) complex acts as a negative regulator of the NLRP3 inflammasome by mediating ubiquitination and degradation of NLRP3 (PubMed:26037928). {ECO:0000250|UniProtKB:Q8BH16, ECO:0000269|PubMed:22020328, ECO:0000269|PubMed:22323446, ECO:0000269|PubMed:23604317, ECO:0000269|PubMed:26037928}.
Molecular Weight:	47.1 kDa
UniProt:	Q9UKC9

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.
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

