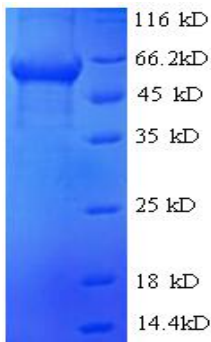




Recombinant F-box/LRR-repeat protein 2(FBXL2) for Homo sapiens (Human)

Catalog Number: CSB-EP892134HU

Product Name:	Recombinant F-box/LRR-repeat protein 2(FBXL2) for Homo sapiens (Human)
Alternative names:	F-box and leucine-rich repeat protein 2
Catalog Number:	CSB-EP892134HU
Relevance :	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. 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. This is the case for the cyclins CCND2 and CCND3 which polyubiquitination and subsequent degradation are inhibited by calmodulin. Through CCND2 and CCND3 degradation may induce cell-cycle arrest in G0. SCF(FBXL2) may also mediate PIK3R2 ubiquitination and proteasomal degradation thereby regulating phosphatidylinositol 3-kinase signaling and indirectly autophagy (PubMed:22323446, PubMed:22020328, PubMed:23604317). PCYT1A monoubiquitination by SCF(FBXL2) and subsequent degradation may regulate synthesis of phosphatidylcholine, which is utilized for formation of membranes and of pulmonary surfactant (By similarity).
Mol. Weight:	62kD
Product Info :	His-tagged
Source:	E.coli derived
Images	
Purity:	>90%(SDS-PAGE)
Storage Buffer:	20mM Tris-HCl, 0.5M Arg, PH 8.0,50% glycerol
Storage :	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Notes :	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
AA sequence:	MVFSNNDEGLINKKLPKELLRIFSFLLDIVTLRCRAQISKAWNILALDGSNWQRIDLFNFQTDVEGRVVENISKRC GGFLRKLSLRGCGVGDSSLKTFQNCRNIEHLNNGCTKITDSTCYSLSRFCSKLKHLDLTSCV SITNSSLKGIS EGCRNLEYLNLSWCDQITKDGIEALVRGCRGLKALLRGCTQLEDEALKHIQNYCHELVSLNLQSCSRITDEGV VQICRGCHRLQALCLSGCSNLTDASLTALGLNCPRLQILEAARCSHLTDAGFTLLARNCHELEKMDLEECILITDS TLIQLSIHCPKLQALSLSHCELITDDGILHLSNSTCGHERLRVLELDNCLLITDVALEHLENCRGLERLELYDCQQV TRAGIKRMRAQLPHVKVHAYFAPVTPPTAVAGSGQRLCRCCVIL
References:	"Identification of a family of human F-box proteins." Cenciarelli C., Chiaur D.S., Guardavaccaro D., Parks W., Vidal M., Pagano M. Curr. Biol. 9:1177-1179(1999)