

## Recombinant Human FBXL2 Protein (1-423 aa), His-SUMO-tagged

Cat. No. FBXL2-1159H    Lot. No. (See product label)

### SPECIFICATION

#### Product Overview

Recombinant Human FBXL2 Protein (1-423 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Research Area: Cell Biology. Protein Description: Full Length.

#### Species

Human

#### Source

E.coli

#### ProteinLength

1-423 aa

#### Description

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 induces cell-cycle arrest in G0 (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 phosphatidylcholine, which is utilized for formation of membranes and of pulmonary surfactant (By similarity).

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form</b>           | Tris-based buffer, 50% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Mass</b> | 63.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>AA Sequence</b>    | <p>MVFSNNDEGLINKKLPKELLRIFSFLDIVTLCRCAQISKAWNILALDGSNWQRIDLFN</p> <p>FQTDVEGRVVENISKRCGGFLRKLSLRGCIGVGDSLSKTFQAQNCRNIEHLNLNGCTK</p> <p>ITDSTCYSLSRFCSKLKHLDTSCVSITNSSLKGISEGCRNLEYLNLSWCDQITKDGIE</p> <p>ALVRGCRGLKALLLRGCTQLEDEALKHIQNYCHELVSLNLQSCSRITDEGVVQICRG</p> <p>CHRLQALCLSGCSNLTDASLTALGLNCPRLQILEAARCSHLTDAGFTLLARNCHELE</p> <p>KMDLEECILITDSTLIQLSIHCPKLQALSLSHCELITDDGILHLSNSTCGHERLRVLELD</p> <p>NCLLITDVALEHLENCRGLERLELYDCQQVTRAGIKRMRAQLPHVKVHAYFAPVTPP</p> <p>TAVAGSGQRLCRCCVIL</p> |
| <b>Purity</b>         | > 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Notes</b>          | Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Storage</b>        | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.                                                                                                                                                                                   |
| <b>Concentration</b>  | A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.                                                                                                                                                                                                                                                                                                                                                                       |

## GENE INFORMATION

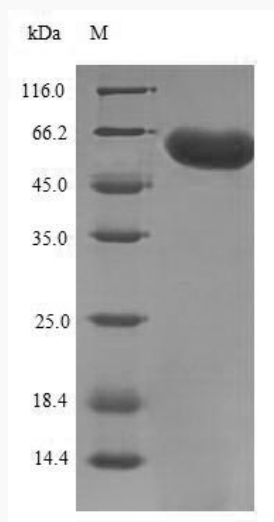
|                        |                                                                |
|------------------------|----------------------------------------------------------------|
| <b>Gene Name</b>       | FBXL2 F-box and leucine-rich repeat protein 2 [ Homo sapiens ] |
| <b>Official Symbol</b> | FBXL2                                                          |

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|                       |                                   |
|-----------------------|-----------------------------------|
| <b>Synonyms</b>       | FBXL2; FBL2; FBL3; DKFZp564P0622; |
| <b>Gene ID</b>        | 25827                             |
| <b>mRNA Refseq</b>    | NM_001171713                      |
| <b>Protein Refseq</b> | NP_001165184                      |
| <b>MIM</b>            | 605652                            |
| <b>UniProt ID</b>     | Q9UKC9                            |



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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