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Product datasheet for TP506738

Fbxl2 (NM_178624) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse F-box and leucine-rich repeat protein 2 (Fbxl2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR206738 protein sequence Red=Cloning site Green=Tags(s) MVFSNSDDGLINKKLPKELLLRIFSFLDIVTLCRCAQISKAWNILALDGSNWQRVDLFNFQTDVEGRVVE NISKRCGGFLRKLSLRGCIGVGDSSLKTFAQNCRNIEHLNLNGCTKITDSTCYSLSRFCSKLKHLDLTSC VSVTNSSLKGISEGCRNLEYLNLSWCDQITKEGIEALVRGCRGLKALLLRGCTQLEDEALKHIQNHCHEL VSLNLQSCSRITDDGVVQICRGCHRLQALCLSGCSNLTDASLTALGLNCPRLQVLEAARCSHLTDAGFTL LARNCHELEKMDLEECVLITDSTLVQLSIHCPKLQALSLSHCELITDEGILHLSSSTCGHERLRVLELDN CLLVTDASLEHLENCRGLERLELYDCQQVTRAGIKRMRAQLPHVKVHAYFAPVTPPPAVAGSGHRLCRCC VIL TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	46.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_848739
Locus ID:	72179

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UniProt ID:	Q8BH16, Q4VA21
RefSeq Size:	3203
Cytogenetics:	9 F3
RefSeq ORF:	1272
Synonyms:	2810423A21Rik; Fbl3
Summary:	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 G(0). SCF(FBXL2) also mediates PIK3R2 ubiquitination and proteasomal degradation thereby regulating phosphatidylinositol 3-kinase signaling and autophagy (By similarity). PCYT1A monoubiquitination by SCF(FBXL2) and subsequent degradation regulates synthesis of phosphatidylcholine, which is utilized for formation of membranes and of pulmonary surfactant (PubMed:21343341).[UniProtKB/Swiss-Prot Function]