FBXL2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FBXL2, Polyclonal Antibody
Full Product Name	FBXL2 Antibody, Biotin conjugated
Product Gene Name	anti-FBXL2 antibody
Product Synonym Names	F-box/LRR-repeat protein 2Curated; FBXL2; F-box and leucine-rich repeat protein 2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Purity/Purification	>95%, Protein G Purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: FBXL2 (MBS1495583) Biotin Conjugated Antibody: FBXL2 (MBS1492360)
Molecular Weight	39,613 Da
OMIM	605652
3D Structure	ModBase 3D Structure for Q9UKC9
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Conjugate	Biotin
Immunogen	Recombinant human F-box/LRR-repeat protein 2 protein
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-54358 / sc-54359 / sc-54360 / sc-54361
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-FBXL2 antibody	ELISA (EIA)
Related Product Information for anti-FBXL2 antibody	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) (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).
Other Notes	Small volumes of anti-FBXL2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for FBXL2 purchase	MBS1492360 is an antibody targeting FBXL2. Also known as FBXL2 Antibody, Biotin conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FBXL2. It may not necessarily be applicable to this product.

NCBI GI #	284447314
NCBI GeneID	25827
NCBI Accession #	NP_001165184.1
UniProt Primary Accession #	Q9UKC9
UniProt Secondary Accession #	Q6IAN3; Q9NVQ8; Q9UK27; Q9UKA5; Q9Y3Y9; B4DQV0; E9PD06
UniProt Related Accession #	Q9UKC9
GenBank Nucleotide #	NM_001171713.1
NCBI Official Full Name	F-box/LRR-repeat protein 2 isoform 2
NCBI Official Synonym Full Names	F-box and leucine-rich repeat protein 2
NCBI Official Symbol	FBXL2
NCBI Official Synonym Symbols	FBL2; FBL3
UniProt Protein Name	F-box/LRR-repeat protein 2
UniProt Synonym Protein Names	F-box and leucine-rich repeat protein 2
Protein Family	F-box/LRR-repeat protein
UniProt Gene Name	FBXL2
UniProt Entry Name	FBXL2_HUMAN
NCBI Protein Information	F-box/LRR-repeat protein 2
NCBI Summary for FBXL2	This gene encodes a member of the F-box protein family which is characterized by an approximately 40 amino acid motif, the F-box. The F-box proteins constitute one of the four subunits of ubiquitin protein ligase complex called SCFs (SKP1-cullin-F-box), which function in phosphorylation-dependent ubiquitination. The F-box proteins are divided into 3 classes: Fbws containing WD-40 domains, Fbls containing leucine-rich repeats, and Fbxs containing either different protein-protein interaction modules or no recognizable motifs. The protein encoded by this gene belongs to the Fbls class and, in addition to an F-box, contains 12 tandem leucine-rich repeats. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2010]
UniProt Comments for FBXL2	FBXL2: Calcium-activated substrate recognition component of a SCF (SKP1-cullin-F-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins. Unlike many F-box proteins, FBXL2 doesn't seem to target phosphodegron within its substrates but rather calmodulin-binding motifs. Targets PCYT1A for its monoubiquitination and degradation, this is antagonized by calmodulin. Targets the cyclins CCND2 and CCND3 for polyubiquitination and degradation, leading to cell-cycle arrest in G(0), also antagonized by calmodulin. Binds to hepatitis C virus non-structural protein 5A (NS5A) in a reaction crucial for hepatitis C virus RNA replication. Protein type: Ubiquitin ligase Chromosomal Location of Human Ortholog: 3p22.3 Cellular Component: cytoplasm; membrane; SCF ubiquitin ligase complex Molecular Function: calmodulin binding; protein binding; protein phosphatase binding; ubiquitin-protein ligase activity Biological Process: protein modification process; protein monoubiquitination; protein ubiquitination; proteolysis; regulation of autophagy; regulation of phosphoinositide 3-kinase cascade; SCF-dependent proteasomal ubiquitin-dependent protein catabolic process; viral reproduction
Research Articles on FBXL2	**1.** FBXL2 recognizes Trp-73 within NALP3 for interaction and targets Lys-689 within NALP3 for ubiquitin ligation and degradation.

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