

FBXL2 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5030b

Specification

FBXL2 Antibody (C-term) - Product Information

Application	WB, IHC-P, FC,E
Primary Accession	O9UKC9
Other Accession	O8BH16
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	366-395

FBXL2 Antibody (C-term) - Additional Information

Gene ID 25827

Other Names

F-box/LRR-repeat protein 2, F-box and leucine-rich repeat protein 2
{ECO:0000312|HGNC:HGNC:13598}, F-box protein FBL2/FBL3 {ECO:0000303|PubMed:10945468,
ECO:0000312|EMBL:AAF045101}, FBXL2 (<a
href="http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=13598"
target="_blank">HGNC:13598)

Target/Specificity

This FBXL2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 366-395 amino acids from the C-terminal region of human FBXL2.

Dilution

WB~~1:1000-1:2000
IHC-P~~1:50~100
FC~~1:10~50

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

FBXL2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

FBXL2 Antibody (C-term) - Protein Information

Name FBXL2 {ECO:0000303|PubMed:22323446, ECO:0000312|HGNC:HGNC:13598}

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 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](#)).

Cellular Location

Membrane; Lipid- anchor

Tissue Location

Expressed in brain, heart, kidney, liver, lung, pancreas and placenta.

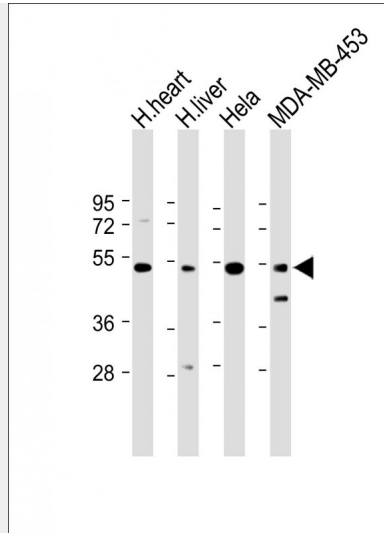
FBXL2 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

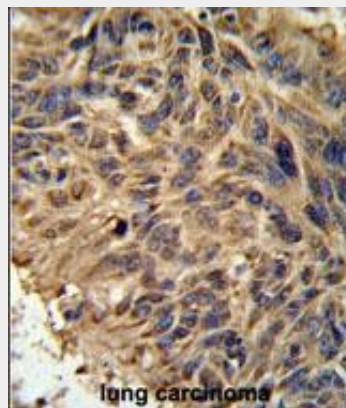
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

FBXL2 Antibody (C-term) - Images

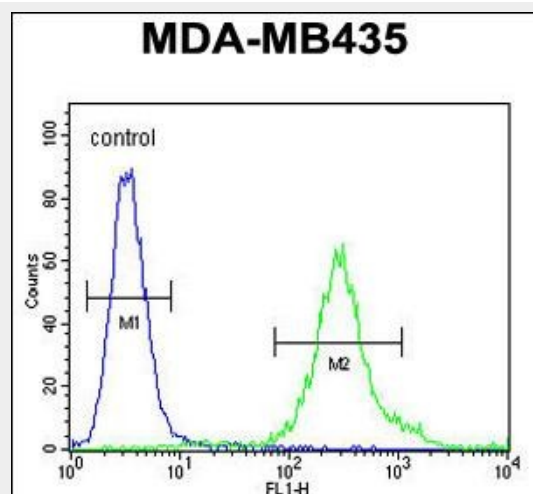




All lanes : Anti-FBXL2 Antibody (C-term) at 1:1000-1:2000 dilution Lane 1: Human heart lysate
 Lane 2: Human liver lysate Lane 3: HeLa whole cell lysate Lane 4: MDA-MB-453 whole cell lysate
 Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated
 at 1/10000 dilution. Predicted band size : 47 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



FBXL2 Antibody (C-term) (Cat. #AP5030b) IHC analysis in formalin fixed and paraffin embedded human lung carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the FBXL2 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



FBXL2 Antibody (C-term) (Cat. #AP5030b) flow cytometric analysis of MDA-MB435 cells (right

histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

FBXL2 Antibody (C-term) - Background

FBXL2 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.

FBXL2 Antibody (C-term) - References

Ye, J. PLoS Pathog. 3 (8), E108 (2007)
Ilyin, G.P., et al. Genomics 67(1):40-47(2000)
Winston, J.T., et al. Curr. Biol. 9(20):1180-1182(1999)