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Rabbit Anti-FBXL5 antibody

SL8468R

Product Name:	FBXL5
Chinese Name:	FBXL5蛋白抗体
Alias:	F box and leucine rich repeat protein 5; F box/LRR repeat protein 5; F-box and leucine-rich repeat protein 5; F-box protein FBL4/FBL5; F-box/LRR-repeat protein 5; FBL4; FBL5; FBXL5; FBXL5_HUMAN; FLR1; p45SKP2 like protein; p45SKP2-like protein.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000Flow-Cyt=1ug/Test not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	79kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human FBXL5:31-130/691
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Component of some SCF (SKP1-cullin-F-box) protein ligase complex that plays a central role in iron homeostasis by promoting the ubiquitination and subsequent degradation of IREB2/IRP2. Upon high iron and oxygen level, it specifically recognizes and binds IREB2/IRP2, promoting its ubiquitination and degradation by the proteasome. Promotes ubiquitination and subsequent degradation of DCTN1/p150-glued.

Function:
Component of some SCF (SKP1-cullin-F-box) protein ligase complex that plays a central role in iron homeostasis by promoting the ubiquitination and subsequent degradation of IREB2/IRP2. Upon high iron and oxygen level, it specifically recognizes and binds IREB2/IRP2, promoting its ubiquitination and degradation by the proteasome. Promotes ubiquitination and subsequent degradation of DCTN1/p150-glued.

Subunit:
Part of a SCF (SKP1-cullin-F-box) protein ligase complex. Interacts with ACO1/IRP1, IREB2/IRP2; the interaction depends on the 4Fe-4S cluster. Interacts with DCTN1/p150-glued.

Subcellular Location:
Cytoplasm, perinuclear region.

Post-translational modifications:
Ubiquitinated upon iron and oxygen depletion, leading to its degradation by the proteasome. Ubiquitination is regulated by the hemerythrin-like region that acts as an oxygen and iron sensor.

Similarity:
Contains 1 F-box domain.
Contains 7 LRR (leucine-rich) repeats.

SWISS:
Q9UKA1

Gene ID:
26234

Database links:

Entrez Gene: 26234Human

Entrez Gene: 242960Mouse

Entrez Gene: 305424Rat

Omim: 605655Human

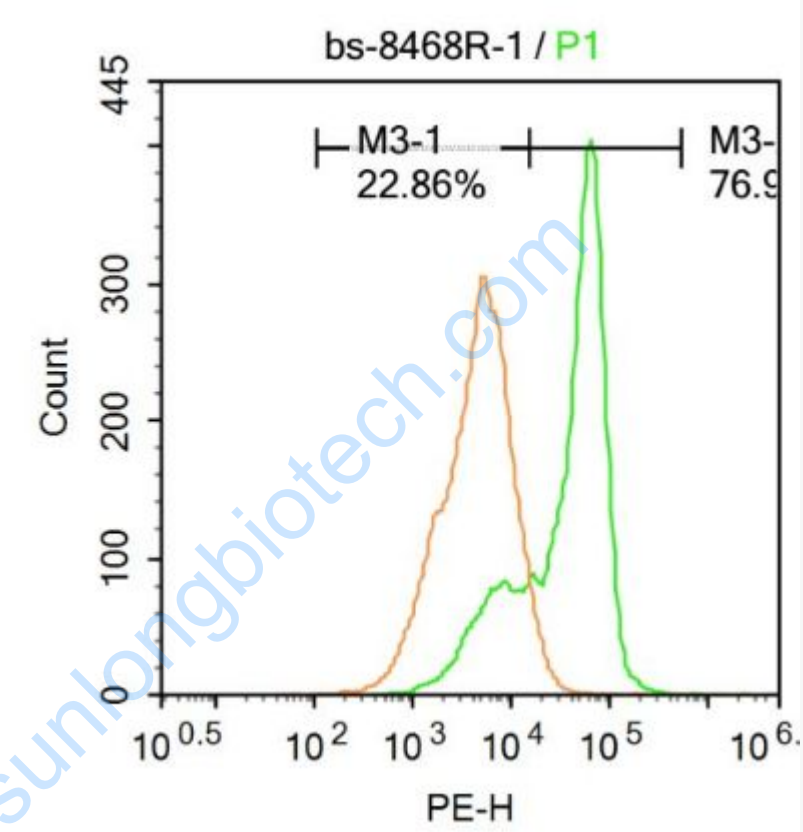
SwissProt: Q9UKA1Human

SwissProt: Q8C2S5Mouse

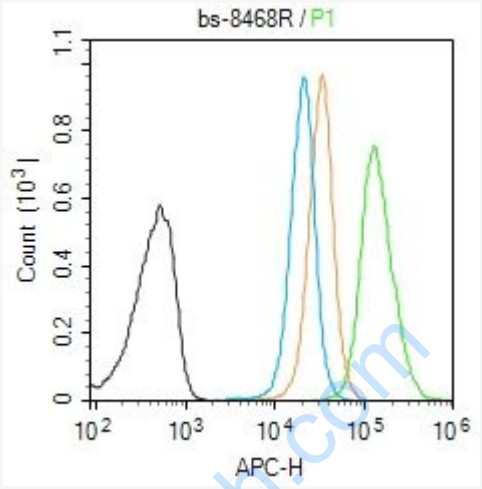
Unigene: 643433Human

Unigene: 714386Human

Unigene: 25794Mouse

	Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Picture:	 Molt-4 cells were fixed with 4% PFA for 10min at room temperature,permeabilized with 20% PBST for 20 min at room temperature, and incubated in 5% BSA blocking buffer for 30 min at room temperature. Cells were then stained with FBXL5 Antibody(SL8468R)at 1:100 dilution in blocking buffer and incubated for 30 min at room temperature, washed twice with 2%BSA in PBS, followed by secondary antibody incubation for 40 min at room temperature. Acquisitions of 20,000 events were performed. Cells stained with primary antibody (green), and isotype control

(orange).



Blank control (Black line): Molt4 (Black).

Primary Antibody (green line): Rabbit Anti-FBXL5 antibody (SL8468R)

Dilution:3μg /10^6 cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF647

Dilution: 3μg /test.

Protocol

The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with PBST for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.