

FBL5 (H-300): sc-134984

BACKGROUND

FBL5 is a 691 amino acid protein encoded by the human gene FBXL5. FBL5 contains one 40 amino acid F-box region, making it a member of the F-box family. FBL5 also contains four LRR (leucine-rich) repeats. F-box proteins are critical components of the SCF (Skp1-CUL-1-F-box protein) type E3 ubiquitin ligase complex and are involved in substrate recognition and recruitment for ubiquitination. F-box proteins are members of a large family that regulates cell cycle, immune response, signalling cascades and developmental programs by targeting proteins, such as cyclins, cyclin-dependent kinase inhibitors, κ B- α and β -catenin, for degradation by the proteasome after ubiquitination. Localized near the nucleus in the cytoplasm, FBL5 is ubiquitously expressed and believed to recognize and bind to phosphorylated proteins to promote their ubiquitination and degradation.

REFERENCES

1. Winston, J.T., et al. 1999. The SCF β -TrCP-ubiquitin ligase complex associates specifically with phosphorylated destruction motifs in κ B- α and β -catenin and stimulates κ B- α ubiquitination *in vitro*. *Genes Dev.* 13: 270-283.
2. Cenciarelli, C., et al. 1999. Identification of a family of human F-box proteins. *Curr. Biol.* 9: 1177-1179.

CHROMOSOMAL LOCATION

Genetic locus: FBXL5 (human) mapping to 4p15.32; Fbxl5 (mouse) mapping to 5 B3.

SOURCE

FBL5 (H-300) is a rabbit polyclonal antibody raised against amino acids 1-300 mapping at the N-terminus of FBL5 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

FBL5 (H-300) is recommended for detection of FBL5 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

FBL5 (H-300) is also recommended for detection of FBL5 in additional species, including porcine and avian.

Suitable for use as control antibody for FBL5 siRNA (h): sc-62302, FBL5 siRNA (m): sc-62303, FBL5 shRNA Plasmid (h): sc-62302-SH, FBL5 shRNA Plasmid (m): sc-62303-SH, FBL5 shRNA (h) Lentiviral Particles: sc-62302-V and FBL5 shRNA (m) Lentiviral Particles: sc-62303-V.

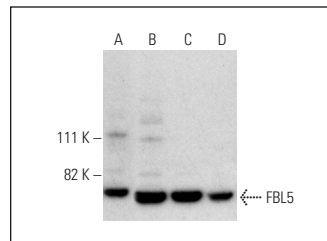
Molecular Weight of FBL5: 79 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203, RT-4 whole cell lysate: sc-364257 or PC-3 cell lysate: sc-2220.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



FBL5 (H-300): sc-134984. Western blot analysis of FBL5 expression in DU 145 (A), K-562 (B), RT-4 (C) and PC-3 (D) whole cell lysates.

SELECT PRODUCT CITATIONS

1. Viñas-Castells, R., et al. 2013. Nuclear ubiquitination by FBXL5 modulates Snail1 DNA binding and stability. *Nucleic acids Res.* 42: 1079-1094.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.


 MONOS
Satisfaction
Guaranteed

Try **FBL5 (G-11): sc-390102**, our highly recommended monoclonal alternative to FBL5 (H-300).