

# FBL12 (H-273): sc-134907

## BACKGROUND

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. They are members of a larger family of proteins that are involved in the regulation of a wide variety of cellular processes (including the cell cycle, immune responses, signaling cascades and developmental events) through the targeting of proteins, such as cyclins, cyclin-dependent kinase inhibitors, I $\kappa$ B- $\alpha$  and  $\beta$ -catenin, for proteasomal degradation. FBL12 (F-box and leucine-rich repeat protein 12), also designated FBXL12, is a 326 amino acid protein that contains one F-box domain, 5 LRR (leucine-rich) repeats and exists as 2 alternatively spliced isoforms. FBL12 interacts with both Skp1 and CUL-1, and is encoded by a gene that maps to human chromosome 19p13.2.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: FBXL12 (human) mapping to 19p13.2; Fbxl12 (mouse) mapping to 9 A3.

## SOURCE

FBL12 (H-273) is a rabbit polyclonal antibody raised against amino acids 54-326 mapping at the C-terminus of FBL12 of human origin.

## PRODUCT

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

## RESEARCH USE

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

## APPLICATIONS

FBL12 (H-273) is recommended for detection of FBL12 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ 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).

FBL12 (H-273) is also recommended for detection of FBL12 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for FBL12 siRNA (h): sc-97389, FBL12 siRNA (m): sc-145086, FBL12 shRNA Plasmid (h): sc-97389-SH, FBL12 shRNA Plasmid (m): sc-145086-SH, FBL12 shRNA (h) Lentiviral Particles: sc-97389-V and FBL12 shRNA (m) Lentiviral Particles: sc-145086-V.

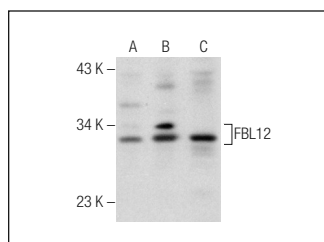
Molecular Weight of FBL12: 37 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201, H69AR whole cell lysate or 804G whole cell lysate.

## 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<sup>™</sup> compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> 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<sup>™</sup> Mounting Medium: sc-24941.

## DATA



FBL12 (H-273): sc-134907. Western blot analysis of FBL12 expression in A-431 (A), H69AR (B) and 804G (C) whole cell lysates.

## STORAGE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.