

## FBXO2 (G-15): sc-69401

### 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. FBXO2 (F-box protein 2), also known as FBX2, FBG1 or NFB42, is a 296 amino acid protein that contains one F-box domain and one F-box associated domain. Functioning as a component of the SCF complex, FBXO2 is thought to recognize and bind to select phosphorylated proteins, thereby promoting their ubiquitination and subsequent degradation.

### REFERENCES

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### CHROMOSOMAL LOCATION

Genetic locus: FBXO2 (human) mapping to 1p36.22; Fbxo2 (mouse) mapping to 4 E2.

### SOURCE

FBXO2 (G-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of FBXO2 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.

Blocking peptide available for competition studies, sc-69401 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

FBXO2 (G-15) is recommended for detection of FBXO2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

FBXO2 (G-15) is also recommended for detection of FBXO2 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for FBXO2 siRNA (h): sc-75008, FBXO2 siRNA (m): sc-75009, FBXO2 siRNA (r): sc-270216, FBXO2 shRNA Plasmid (h): sc-75008-SH, FBXO2 shRNA Plasmid (m): sc-75009-SH, FBXO2 shRNA Plasmid (r): sc-270216-SH, FBXO2 shRNA (h) Lentiviral Particles: sc-75008-V, FBXO2 shRNA (m) Lentiviral Particles: sc-75009-V and FBXO2 shRNA (r) Lentiviral Particles: sc-270216-V.

Molecular Weight of FBXO2: 42 kDa.

### RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker<sup>™</sup> compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz<sup>™</sup> Mounting Medium: sc-24941.

### 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](http://www.scbt.com) or our catalog for detailed protocols and support products.



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Try **FBXO2 (A-12): sc-393873** or **FBXO2 (E-9): sc-398111**, our highly recommended monoclonal alternatives to FBXO2 (G-15).