

FBXO6/44 (H-51): sc-99108

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, κ B- α and β -catenin, for proteasomal degradation. FBXO44 (F-box only protein 44), also known as FBG3, FBX30, FBX44, FBX6A or FBXO6A, is a 255 amino acid protein that contains one F-box domain and one FBA domain and functions as a component of the SCF complex. Expressed abundantly in kidney and brain and present at lower levels in liver, heart and spleen, FBXO44 exists as multiple alternatively spliced isoforms and is thought to be involved in E3 ubiquitin ligase-related events throughout the cell. FBXO6 is another member of the F-box family and is thought to be involved in cell cycle control in tissues such as liver, testis and brain.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: FBXO6/FBXO44 (human) mapping to 1p36.22; Fbxo6/Fbxo44 (mouse) mapping to 4 E2.

SOURCE

FBXO6/44 (H-51) is a rabbit polyclonal antibody raised against amino acids 6-56 mapping near the N-terminus of FBXO6 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

FBXO6/44 (H-51) is recommended for detection of FBXO6 and FBXO44 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).

FBXO6/44 (H-51) is also recommended for detection of FBXO6 and FBXO44 in additional species, including equine, canine, bovine and porcine.

Molecular Weight of FBXO6: 30 kDa.

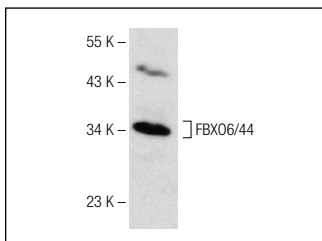
Molecular Weight of FBX44: 34 kDa.

Positive Controls: Caki-1 cell lysate: sc-2224.

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



FBXO6/44 (H-51): sc-99108. Western blot analysis of FBXO6/44 expression in Caki-1 whole cell lysate.

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.



Try **FBXO6 (7B11): sc-134339** or **FBXO44 (C-10): sc-398020**, our highly recommended monoclonal alternatives to FBXO6/44 (H-51).