



FBXW2 (C-12): sc-160325

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 κ B- α and β -catenin, for proteasomal degradation. FBXW2 (F-box and WD repeat domain containing 2), also known as protein MD6 or FWD2, is a 454 amino acid protein that contains one F-box domain and four WD repeats. Existing as two alternatively spliced isoforms, FBXW2 interacts with CUL-1 and Skp1 p19 and is a component of the SCF type E3 ubiquitin ligase complex.

REFERENCES

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- Chiang, M.H., et al. 2008. Ubiquitin-conjugating enzyme UBE2D2 is responsible for FBXW2 (F-box and WD repeat domain containing 2)-mediated human GCM1 (glial cell missing homolog 1) ubiquitination and degradation. *Biol. Reprod.* 79: 914-920.

CHROMOSOMAL LOCATION

Genetic locus: FBXW2 (human) mapping to 9q33.2; Fbxw2 (mouse) mapping to 2 B.

SOURCE

FBXW2 (C-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of FBXW2 of human origin.

STORAGE

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

PRODUCT

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

Blocking peptide available for competition studies, sc-160325 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FBXW2 (C-12) is recommended for detection of FBXW2 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); non cross-reactive with other FBXW family members.

Suitable for use as control antibody for FBXW2 siRNA (h): sc-92515, FBXW2 siRNA (m): sc-145142, FBXW2 shRNA Plasmid (h): sc-92515-SH, FBXW2 shRNA Plasmid (m): sc-145142-SH, FBXW2 shRNA (h) Lentiviral Particles: sc-92515-V and FBXW2 shRNA (m) Lentiviral Particles: sc-145142-V.

Molecular Weight of FBXW2: 52 kDa.

Positive Controls: mouse brain extract: sc-2253, U-937 cell lysate: sc-2239 or MCF7 whole cell lysate: sc-2206.

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™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) 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™ Mounting Medium: sc-24941.

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.