

FBXW5 (N-13): sc-160328

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. FBXW5 (F-box and WD repeat domain-containing 5), also known as FBW5, is a 566 amino acid protein that contains one F-box domain and 3 WD repeats. Expressed as multiple alternatively spliced isoforms, FBXW5 functions as a substrate-recognition component of the SCF complex and directly interacts with Skp1 p19 and CUL-1.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: FBXW5 (human) mapping to 9q34.3; Fbxw5 (mouse) mapping to 2 A3.

SOURCE

FBXW5 (N-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of FBXW5 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.

Blocking peptide available for competition studies, sc-160328 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

FBXW5 (N-13) is recommended for detection of FBXW5 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), immunohistochemistry (including paraffin-embedded sections) (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.

FBXW5 (N-13) is also recommended for detection of FBXW5 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for FBXW5 siRNA (h): sc-92629, FBXW5 siRNA (m): sc-145143, FBXW5 shRNA Plasmid (h): sc-92629-SH, FBXW5 shRNA Plasmid (m): sc-145143-SH, FBXW5 shRNA (h) Lentiviral Particles: sc-92629-V and FBXW5 shRNA (m) Lentiviral Particles: sc-145143-V.

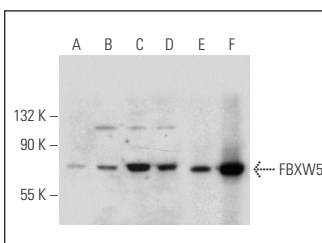
Molecular Weight of FBXW5: 60 kDa.

Positive Controls: U-2 OS cell lysate: sc-2295, Ramos cell lysate: sc-2216 or K-562 whole cell lysate: sc-2203.

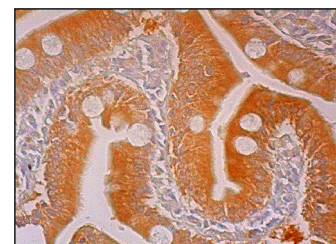
RECOMMENDED SECONDARY REAGENTS

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 MarkerTM compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz MarkerTM 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 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 UltraCruzTM Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruzTM: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



FBXW5 (N-13): sc-160328. Western blot analysis of FBXW5 expression in U-2 OS (A), Jurkat (B), Ramos (C) and K-562 (D) whole cell lysates and rat skeletal muscle (E) and mouse heart (F) tissue extracts.



FBXW5 (N-13): sc-160328. Immunoperoxidase staining of formalin fixed, paraffin-embedded human duodenum tissue showing cytoplasmic staining of glandular cells.

RESEARCH USE

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