



FBXO17/27 (V-14): sc-109470

BACKGROUND

F-box (FBX) 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. FBXs 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. FBXO17 (F-box only protein 17), also known as FBG4, FBX17, FBX26 or FBXO26, is a 278 amino acid protein that contains one F-box domain and one F-box associated domain. Expressed in kidney, heart, liver, skeletal muscle, brain and spleen, FBXO17 functions as a substrate-recognition component of the SCF complex and directly interacts with Skp1 p19 and CUL-1. Multiple isoforms of FBXO17 exist due to alternative splicing events.

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CHROMOSOMAL LOCATION

Genetic locus: FBXO17/FBXO27 (human) mapping to 19q13.2; Fbxo17/Fbxo27 (mouse) mapping to 7 A3.

RESEARCH USE

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

SOURCE

FBXO17/27 (V-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of FBXO17 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-109470 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FBXO17/27 (V-14) is recommended for detection of FBXO17 and FBXO27 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).

FBXO17/27 (V-14) is also recommended for detection of FBXO17 and FBXO27 in additional species, including equine, canine, bovine and porcine.

Molecular Weight of FBXO17/27: 31 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™ 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.

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 or our catalog for detailed protocols and support products.