

FBXO45 (W-16): sc-99418

BACKGROUND

Belonging to the F-box family of proteins, FBXO45 (F-box only protein 45), also designated FBX45, is a 286 amino acid protein that contains one C-terminal F-box domain. 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 protein recruitment for ubiquitination. They are members of a larger family of proteins that are involved in the regulation of a wide variety of cellular mechanisms, including the cell cycle, the immune response, signaling cascades and developmental processes. They function by targeting proteins, such as cyclins, cyclin-dependent kinase inhibitors, I κ B- α and β -catenin, for degradation by the proteasome after ubiquitination. Via its F-box domain, FBXO45 can directly interact with Skp1 p19 and CUL-1. FBXO45 has been shown to be an estrogen-induced gene.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: FBXO45 (human) mapping to 3q29; Fbxo45 (mouse) mapping to 16 B2.

RESEARCH USE

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

SOURCE

FBXO45 (W-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of FBXO45 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-99418 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FBXO45 (W-16) is recommended for detection of FBXO45 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 FBXO family members.

FBXO45 (W-16) is also recommended for detection of FBXO45 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for FBXO45 siRNA (h): sc-78222, FBXO45 siRNA (m): sc-145129, FBXO45 shRNA Plasmid (h): sc-78222-SH, FBXO45 shRNA Plasmid (m): sc-145129-SH, FBXO45 shRNA (h) Lentiviral Particles: sc-78222-V and FBXO45 shRNA (m) Lentiviral Particles: sc-145129-V.

Molecular Weight of FBXO45: 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.