SANTA CRUZ BIOTECHNOLOGY, INC.

FBXO2 (D-19): sc-69400



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, $I\kappa B-\alpha$ and β -catenin, for proteasomal degradation. FBX02 (F-box protein 2), also known as FBX2, FBG1 or NFB42, is a 296 amino acid protein that contains one F-box domain and one F-box associated domain. Functioning as a component of the SCF complex, FBX02 is thought to recognize and bind to select phosphorylated proteins, thereby promoting their ubiquitination and subsequent degradation.

CHROMOSOMAL LOCATION

Genetic locus: FBX02 (human) mapping to 1p36.22; Fbxo2 (mouse) mapping to 4 E2.

SOURCE

FBX02 (D-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of FBX02 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-69400 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

FBX02 (D-19) is recommended for detection of FBX02 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).

FBX02 (D-19) is also recommended for detection of FBX02 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for FBX02 siRNA (h): sc-75008, FBX02 siRNA (m): sc-75009, FBX02 shRNA Plasmid (h): sc-75008-SH, FBX02 shRNA Plasmid (m): sc-75009-SH, FBX02 shRNA (h) Lentiviral Particles: sc-75008-V and FBX02 shRNA (m) Lentiviral Particles: sc-75009-V.

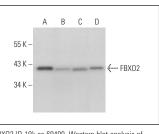
Molecular Weight of FBX02: 42 kDa.

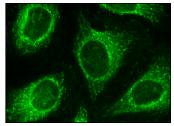
Positive Controls: SH-SY5Y cell lysate: sc-3812, Hep G2 cell lysate: sc-2227 or rat brain extract: sc-2392.

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) 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 UltraCruz™ Mounting Medium: sc-24941.

DATA





FBX02 (D-19): sc-69400. Western blot analysis of FBX02 expression in SH-SYSY (A), NCI-H1299 (B) and Hep G2 (C) whole cell lysates and rat brain tissue extract (D).

FBX02 (D-19): sc-69400. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization.

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.

MONOS Satisfation Guaranteed

Try FBX02 (A-12): sc-393873 or FBX02 (E-9): sc-398111, our highly recommended monoclonal alternatives to FBX02 (D-19).