SANTA CRUZ BIOTECHNOLOGY, INC.

FBXW17 (E-3): sc-515313

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

FBXW17, F-box and WD-40 domain protein 17, is a 466 amino acid protein containing one 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 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, IκB-α and β-catenin, for proteasomal degradation. The FBXW17 gene is located on chromosome 13 A5 in mouse and conserved in canine, bovine, rat and zebrafish.

REFERENCES

1. Bai, C., Sen, P., Hofmann, K., Ma, L., Goebl, M., Harper, J.W. and Elledge, S.J. 1996. SKP1 connects cell cycle regulators to the ubiquitin proteolysis machinery through a novel motif, the F-box. Cell 86: 263-274.
2. Skowyra, D., Craig, K.L., Tyers, M., Elledge, S.J. and Harper, J.W. 1997. F-box proteins are receptors that recruit phosphorylated substrates to the SCF ubiquitin-ligase complex. Cell 91: 209-219.
3. Winston, J.T., Koepp, D.M., Zhu, C., Elledge, S.J. and Harper, J.W. 1999. A family of mammalian F-box proteins. Curr. Biol. 9: 1180-1182.
4. Craig, K.L. and Tyers, M. 1999. The F-box: a new motif for ubiquitin dependent proteolysis in cell cycle regulation and signal transduction. Prog. Biophys. Mol. Biol. 72: 299-328.
5. Kipreos, E.T. and Pagano, M. 2000. The F-box protein family. Genome Biol. 1: REVIEWS3002.

CHROMOSOMAL LOCATION

Genetic locus: Fbxw17 (mouse) mapping to 13 A5.

SOURCE

FBXW17 (E-3) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 122-141 within an internal region of FBXW17 of mouse origin.

PRODUCT

Each vial contains 200 µg IgG_{2b} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

FBXW17 (E-3) is available conjugated to agarose (sc-515313 AC), 500 µg/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-515313 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-515313 PE), fluorescein (sc-515313 FITC), Alexa Fluor® 488 (sc-515313 AF488), Alexa Fluor® 546 (sc-515313 AF546), Alexa Fluor® 594 (sc-515313 AF594) or Alexa Fluor® 647 (sc-515313 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-515313 AF680) or Alexa Fluor® 790 (sc-515313 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

FBXW17 (E-3) is recommended for detection of FBXW17 of mouse and rat origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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).

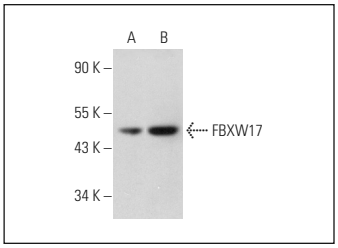
Suitable for use as control antibody for FBXW17 siRNA (m): sc-145140, FBXW17 shRNA Plasmid (m): sc-145140-SH and FBXW17 shRNA (m) Lentiviral Particles: sc-145140-V.

Positive Controls: EOC 20 whole cell lysate: sc-364187 or LADMAC whole cell lysate: sc-364189.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



FBXW17 (E-3): sc-515313. Western blot analysis of FBXW17 expression in EOC 20 (**A**) and LADMAC (**B**) whole cell lysates.

STORAGE

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

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.