

FBXO17 (H-40): sc-98292

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.

REFERENCES

- Bai, C., et al. 1996. Skp1 connects cell cycle regulators to the ubiquitin proteolysis machinery through a novel motif, the F-box. *Cell* 86: 263-274.
- Skowrya, D., et al. 1997. F-box proteins are receptors that recruit phosphorylated substrates to the SCF ubiquitin-ligase complex. *Cell* 91: 209-219.
- Winston, J.T., et al. 1999. A family of mammalian F-box proteins. *Curr. Biol.* 9: 1180-1182.
- Craig, K.L., et al. 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.
- Kipreos, E.T., et al. 2000. The F-box protein family. *Genome Biol.* 1: REVIEWS3002.
- Ilyin, G.P., et al. 2002. A new subfamily of structurally related human F-box proteins. *Gene* 296: 11-20.
- Online Mendelian Inheritance in Man, OMIM[™]. 2004. Johns Hopkins University, Baltimore, MD. MIM Number: 609094. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

CHROMOSOMAL LOCATION

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

SOURCE

FBXO17 (H-40) is a rabbit polyclonal antibody raised against amino acids 103-142 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.

STORAGE

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

APPLICATIONS

FBXO17 (H-40) is recommended for detection of FBXO17 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).

FBXO17 (H-40) is also recommended for detection of FBXO17 in additional species, including canine.

Suitable for use as control antibody for FBXO17 siRNA (h): sc-97555, FBXO17 siRNA (m): sc-145107, FBXO17 shRNA Plasmid (h): sc-97555-SH, FBXO17 shRNA Plasmid (m): sc-145107-SH, FBXO17 shRNA (h) Lentiviral Particles: sc-97555-V and FBXO17 shRNA (m) Lentiviral Particles: sc-145107-V.

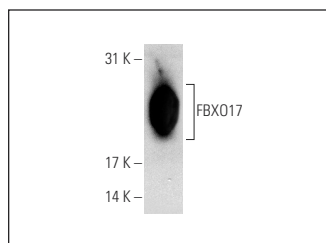
Molecular Weight of FBXO17: 31 kDa.

Positive Controls: mouse brain extract: sc-2253 or human heart extract: sc-363763.

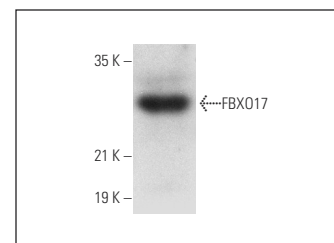
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

DATA



FBXO17 (H-40): sc-98292. Western blot analysis of FBXO17 expression in mouse brain tissue extract.



FBXO17 (H-40): sc-98292. Western blot analysis of FBXO17 expression in human heart tissue extract.

RESEARCH USE

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

PROTOCOLS

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