

FBXO3 (H-300): sc-134722

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 κ B- α and β -catenin, for proteasomal degradation. FBXO3 (F-box protein 3), also known as FBA or FBX3, is a 471 amino acid member of the F-box protein family. Substrate-recognition component of the SCF (SKP1-CUL1-F-box protein)-type E3 ubiquitin ligase complex, FBXO3 contains an apaG domain and a F-box domain. Existing as two isoforms produced by alternative splicing events, FBXO3 interacts with Skp1 p19 and CUL-1.

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.
- Cenciarelli, C., et al. 1999. Identification of a family of human F-box proteins. *Curr. Biol.* 9: 1177-1179.
- Winston, J.T., et al. 1999. A family of mammalian F-box proteins. *Curr. Biol.* 9: 1180-1182.
- Latres, E., et al. 1999. The human F box protein β -Trcp associates with the Cul1/Skp1 complex and regulates the stability of β -catenin. *Oncogene* 18: 849-854.
- Masuda, K., et al. 2002. Molecular profile of synovial fibroblasts in rheumatoid arthritis depends on the stage of proliferation. *Arthritis Res.* 4: R8.
- Ilyin, G.P., et al. 2002. A new subfamily of structurally related human F-box proteins. *Gene* 296: 11-20.

CHROMOSOMAL LOCATION

Genetic locus: TRIOBP (human) mapping to 22q13.1; Triobp (mouse) mapping to 15 E1.

SOURCE

FBXO3 (H-300) is a rabbit polyclonal antibody raised against amino acids 91-390 mapping within an internal region of FBXO3 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° 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.

APPLICATIONS

FBXO3 (H-300) is recommended for detection of FBXO3 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).

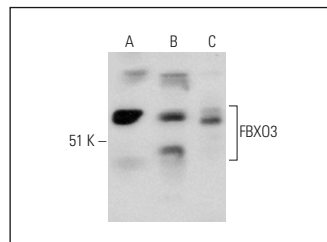
FBXO3 (H-300) is also recommended for detection of FBXO3 in additional species, including equine, canine, bovine and avian.

Suitable for use as control antibody for FBXO3 siRNA (h): sc-96506, FBXO3 siRNA (m): sc-145116, FBXO3 shRNA Plasmid (h): sc-96506-SH, FBXO3 shRNA Plasmid (m): sc-145116-SH, FBXO3 shRNA (h) Lentiviral Particles: sc-96506-V and FBXO3 shRNA (m) Lentiviral Particles: sc-145116-V.

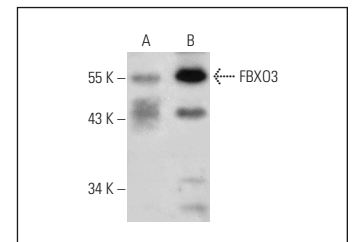
Molecular Weight of FBXO3: 55 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, Hep G2 cell lysate: sc-2227 or HISM cell lysate: sc-2229

DATA



FBXO3 (H-300): sc-134722. Western blot analysis of FBXO3 expression in HeLa (A), Hep G2 (B) and HISM (C) whole cell lysates.



FBXO3 (H-300): sc-134722. Western blot analysis of FBXO3 expression in JAR (A) and HeLa (B) whole cell lysates.

SELECT PRODUCT CITATIONS

- Chen, B.B., et al. 2013. A combinatorial F box protein directed pathway controls TRAF adaptor stability to regulate inflammation. *Nat. Immunol.* 14: 470-479.

PROTOCOLS

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



Try **FBXO3 (C-7): sc-514625**, our highly recommended monoclonal alternative to FBXO3 (H-300).