

FBXO8 (F-19): sc-67632

BACKGROUND

F-box only protein 8 (FBXO8) is a 319 amino acid protein encoded by the human gene FBXO8. FBXO8 contains one 40 amino acid F-box region making it a member of the F-box family. FBXO8 also contains one SEC7 domain, a domain that catalyzes exchange of GDP for GTP on the ARF family of small GTP-binding proteins. 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. F-box proteins are members of a large family that regulates cell cycle, immune response, signaling cascades and developmental programs by targeting proteins, such as cyclins, cyclin-dependent kinase inhibitors, I κ B α and β -catenin, for degradation by the proteasome after ubiquitination. Localized near the nucleus in the cytoplasm, FBXO8 is ubiquitously expressed and believed to promote the activation of ARF through replacement of GDP with GTP.

REFERENCES

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6. Schulman, B.A., Carrano, A.C., Jeffrey, P.D., Bowen, Z., Kinnucan, E.R., Finnin, M.S., Elledge, S.J., Harper, J.W., Pagano, M. and Pavletich, N.P. 2000. Insights into SCF ubiquitin ligases from the structure of the Skp1-Skp2 complex. *Nature* 408: 381-386.
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CHROMOSOMAL LOCATION

Genetic locus: FBXO8 (human) mapping to 4q34.1; Fbxo8 (mouse) mapping to 8 B2.

SOURCE

FBXO8 (F-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of FBXO8 of human origin.

RESEARCH USE

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

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-67632 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FBXO8 (F-19) is recommended for detection of FBXO8 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).

FBXO8 (F-19) is also recommended for detection of FBXO8 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for FBXO8 siRNA (h): sc-62308, FBXO8 siRNA (m): sc-62309, FBXO8 shRNA Plasmid (h): sc-62308-SH, FBXO8 shRNA Plasmid (m): sc-62309-SH, FBXO8 shRNA (h) Lentiviral Particles: sc-62308-V and FBXO8 shRNA (m) Lentiviral Particles: sc-62309-V.

Molecular Weight of FBXO8: 37 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) 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.

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.