

FBXO42 (h): 293T Lysate: sc-117274

BACKGROUND

FBXO42 (F-box only protein 42), also known as FBX42, is a 717 amino acid protein that contains four Kelch repeats and one N-terminal F-box domain, and belongs to the F-box family of 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. 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 response, signaling cascades and developmental processes) through the targeting of proteins, such as cyclins, cyclin-dependent kinase inhibitors, I κ B- α and β -catenin, for degradation by the proteasome after ubiquitination. Expressed at moderate levels in liver, ovary, kidney, testis and adult brain, and at low levels in heart and fetal brain, FBXO42 directly interacts with Skp1 p19 and CUL-1.

REFERENCES

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3. Nagase, T., Kikuno, R., Ishikawa, K.I., Hirose, M. and Ohara, O. 2000. Prediction of the coding sequences of unidentified human genes. XVI. The complete sequences of 150 new cDNA clones from brain which code for large proteins *in vitro*. *DNA Res.* 7: 65-73.
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5. Jin, J., Cardozo, T., Lovering, R.C., Elledge, S.J., Pagano, M. and Harper, J.W. 2004. Systematic analysis and nomenclature of mammalian F-box proteins. *Genes Dev.* 18: 2573-2580.

CHROMOSOMAL LOCATION

Genetic locus: FBXO42 (human) mapping to 1p36.13.

PRODUCT

FBXO42 (h): 293T Lysate represents a lysate of human FBXO42 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

FBXO42 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive FBXO42 antibodies. Recommended use: 10-20 μ l per lane.

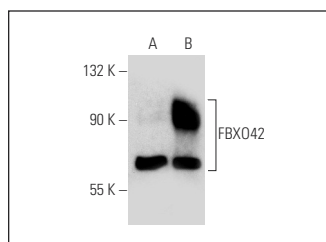
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

FBXO42 (FL-6): sc-100737 is recommended as a positive control antibody for Western Blot analysis of enhanced human FBXO42 expression in FBXO42 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgG κ BP-HRP: sc-516102 or m-IgG κ 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.

DATA



FBXO42 (FL-6): sc-100737. Western blot analysis of FBXO42 expression in non-transfected: sc-117752 (A) and human FBXO42 transfected: sc-117274 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. 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.