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FBP1 (m): 293T Lysate: sc-120211

BACKGROUND

Activation of FUSE, the far upstream element, is required for the proper expression of the mammalian gene c-Myc in undifferentiated cells. The binding of FBP1 (FUSE-binding protein or far upstream element-binding protein) to FUSE is necessary for c-Myc expression, indicating that FBP1 functions as a growth-dependent regulator of c-Myc expression. Isolated from proliferating HL-60 cells, FBP1 (FBP), FBP2 and FBP3 comprise a family of single-stranded DNA-binding proteins that specifically bind to FUSE elements. The FBP transcription factors share a conserved central DNA-binding domain and show significant homology in their carboxyl-terminal activation domains. Expression of FBP1 is detected in undifferentiated cells and is substantially decreased following cellular differentiation.

REFERENCES

1. Avigan, M.I., Stober, B. and Levens, D. 1990. A far upstream element stimulates c-Myc expression in undifferentiated leukemia cells. *J. Biol. Chem.* 265: 18538-18545.
2. Duncan, R., Bazar, L., Michelotti, G., Tomonaga, T., Krutzsch, H., Avigan, M. and Levens, D. 1994. A sequence-specific, single strand binding protein activates the far upstream of c-Myc and defines a new DNA-binding motif. *Genes Dev.* 8: 465-480.
3. Bazar, L., Harris, V., Sunitha, I., Hartmann, D. and Avigan, M. 1995. A transactivator of c-Myc is coordinately regulated with the proto-oncogene during cellular growth. *Oncogene* 10: 2229-2238.
4. Davis-Smyth, T., Duncan, R.C., Zheng, T., Michelotti, G. and Levens, D. 1996. The far upstream element-binding proteins comprise an ancient family of single-strand DNA-binding transactivators. *J. Biol. Chem.* 271: 31679-31687.
5. Michelotti, G.A., Michelotti, E.F., Pullner, A., Duncan, R.C., Eick, D. and Levens, D. 1996. Multiple single-stranded *cis* elements are associated with activated chromatin of the human c-Myc gene *in vivo*. *Mol. Cell. Biol.* 16: 2656-2669.
6. Rehbein, M., Wege, K., Buck, F., Schweizer, M., Richter, D. and Kindler, S. 2002. Molecular characterization of MARTA1, a protein interacting with the dendritic targeting element of MAP2 mRNAs. *J. Neurochem.* 82: 1039-1046.
7. Braddock, D.T., Louis, J.M., Baber, J.L., Levens, D. and Clore, G.M. 2002. Structure and dynamics of KH domains from FBP bound to single-stranded DNA. *Nature* 415:1051-1056.

CHROMOSOMAL LOCATION

Gentic locus: *Fubp1* (mouse) mapping to 3 H3.

PRODUCT

FBP1 (m): 293T Lysate represents a lysate of mouse FBP1 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

RESEARCH USE

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

APPLICATIONS

FBP1 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive FBP1 antibodies. Recommended use: 10-20 µl per lane.

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

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.

PROTOCOLS

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