

YY1 (h2): 293T Lysate: sc-172170

BACKGROUND

The YY1 transcription factor, also known as NF-E1 (human) and Delta or UCRBP (mouse) is of interest due to its diverse effects on a wide variety of target genes. YY1 is broadly expressed in a wide range of cell types and contains four C-terminal zinc finger motifs of the Cys-Cys-His-His type and an unusual set of structural motifs at its N-terminal. It binds to downstream elements in several vertebrate ribosomal protein genes, where it apparently acts positively to stimulate transcription and can act either negatively or positively in the context of the immunoglobulin κ 3' enhancer and immunoglobulin heavy-chain μ E1 site as well as the P5 promoter of the adeno-associated virus. It thus appears that YY1 is a bifunctional protein, capable of functioning as an activator in some transcriptional control elements and a repressor in others.

REFERENCES

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2. Park, K. and Atchison, M.L. 1991. Isolation of a candidate repressor/activator, NF-E1 (YY1, Delta), that binds to the immunoglobulin κ 3' enhancer and the immunoglobulin heavy-chain μ E1 site. *Proc. Natl. Acad. Sci. USA* 88: 9804-9808.
3. Shi, Y., Seto, E., Chang, L.S. and Shen, T. 1991. Transcriptional repression by YY1, a human GLI-Krüppel-related protein, and relief of repression by adenovirus E1A protein. *Cell* 67: 377-388.
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5. Flanagan, J.R., Becker, K.G., Ennist, D.L., Gleason, S.L., Driggers, P.H., Levi, B.Z., Appella, E. and Ozato, K. 1992. Cloning of a negative transcription factor that binds to the upstream conserved region of Moloney murine leukemia virus. *Mol. Cell. Biol.* 12: 38-44.
6. Sáfrány, G. and Perry, R.P. 1993. Characterization of the mouse gene that encodes the Delta/YY1/NF-E1/UCRBP transcription factor. *Proc. Natl. Acad. Sci. USA* 90: 5559-5563.
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CHROMOSOMAL LOCATION

Genetic locus: YY1 (human) mapping to 14q32.2.

PRODUCT

YY1 (h2): 293T Lysate represents a lysate of human YY1 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

RESEARCH USE

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

APPLICATIONS

YY1 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive YY1 antibodies. Recommended use: 10-20 μ l per lane.

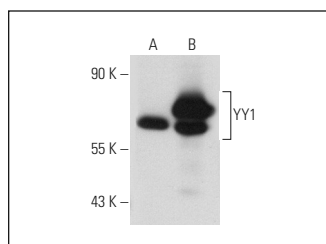
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

YY1 (H-10): sc-7341 is recommended as a positive control antibody for Western Blot analysis of enhanced human YY1 expression in YY1 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



YY1 (H-10): sc-7341. Western blot analysis of YY1 expression in non-transfected: sc-117752 (A) and human YY1 transfected: sc-172170 (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.

PROTOCOLS

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