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TFIIB (m): 293T Lysate: sc-124000

BACKGROUND

In eukaryotic systems, initiation of transcription from protein-coding genes is a complex process requiring RNA polymerase II and broad families of auxiliary transcription factors. Such factors can be divided into two major functional classes: the basal factors that are required for transcription of all Pol II genes, including TFIIA, TFIIB, TFIID, TFII E, TFII F and TFII H; and sequence-specific factors that regulate gene expression. The basal transcription factors and Pol II form a specific multiprotein complex near the transcription start site by interacting with core promoter elements such as the TATA box generally located 25-30 base pairs upstream of the transcription start site. Template commitment is established by the initial binding of TFIID to the "TATA" element of the promoter, a step which may be facilitated by TFIIA. TFIIB then acts as the bridge between TFIID and RNA polymerase II.

REFERENCES

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3. Peterson, M.G., Inostroza, J., Maxon, M.E., Flores, O., Admon, A., Reinberg, D. and Tjian, R. 1991. Structure and functional properties of human general transcription factor IIE. *Nature* 354: 369-373.
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5. Lee, D.K., Dejong, J., Hashimoto, S., Horikoshi, M. and Roeder, R.G. 1992. TFIIA induces conformational changes in TFIID via interactions with the basic repeat. *Mol. Cell. Biol.* 12: 5189-5196.
6. Takada, R., Nakatani, Y., Hoffmann, A., Kokubo, T., Hasegawa, S., Roeder, R.G. and Horikoshi, M. 1992. Identification of human TFIID components and direct interaction between a 250-kDa polypeptide and the TATA box-binding protein (TFIIDt). *Proc. Natl. Acad. Sci. USA* 89: 11809-11813.
7. Yonaha, M., Aso, T., Kobayashi, Y., Vasavada, H., Yasukochi, Y., Weissman, S.M., and Kitajima, S. 1993. Domain structure of a human general transcription initiation factor, TFIIF. *Nucleic Acids Res.* 21: 273-279.

CHROMOSOMAL LOCATION

Genetic locus: Gtf2b (mouse) mapping to 3 H1.

PRODUCT

TFIIB (m): 293T Lysate represents a lysate of mouse TFIIB 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

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

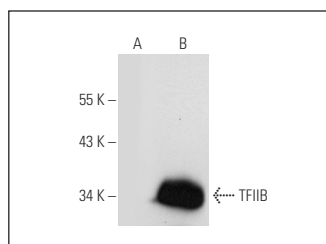
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

TFIIB (IIB8): sc-23875 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse TFIIB expression in TFIIB transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

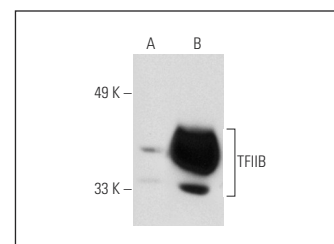
RECOMMENDED SUPPORT REAGENTS

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



TFIIB (IIB8): sc-23875. Western blot analysis of TFIIB expression in non-transfected: sc-117752 (A) and mouse TFIIB transfected: sc-124000 (B) 293T whole cell lysates.



TFIIB (1.BB.66): sc-73145. Western blot analysis of TFIIB expression in non-transfected: sc-117752 (A) and mouse TFIIB transfected: sc-124000 (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.