



TTF2 (m): 293T Lysate: sc-124361

BACKGROUND

TTF2 (transcription termination factor 2), also known as HuF2, is a dsDNA (double-stranded DNA)-dependent ATPase that functions as a transcription termination factor. Localized to the cytoplasm during interphase and to the nucleus once the cell enters mitosis, TTF2 couples ATP hydrolysis with the removal of RNA polymerase II (Pol II) from the DNA template, thereby terminating transcription. TTF2 is a member of the Swi2/Snf2 protein family and, in addition to its ability to terminate transcription, is thought to play a role in pre-mRNA splicing and mitotic transcriptional repression. TTF2 contains one helicase ATP-binding domain and is thought to interact with both the spliceosome complex and with Cdc5L (cell division cycle 5-like). Two isoforms of TTF2 exist due to alternative splicing events.

REFERENCES

1. Liu, M., Xie, Z. and Price, D.H. 1998. A human RNA polymerase II transcription termination factor is a Swi2/Snf2 family member. *J. Biol. Chem.* 273: 25541-25544.
2. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 604718. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
3. Leonard, D., Ajuh, P., Lamond, A.I. and Legerski, R.J. 2003. hLodestar/HuF2 interacts with Cdc5L and is involved in pre-mRNA splicing. *Biochem. Biophys. Res. Commun.* 308: 793-801.
4. Jiang, Y. and Price, D.H. 2004. Rescue of the TTF2 knockdown phenotype with an siRNA-resistant replacement vector. *Cell Cycle* 3: 1151-1153.
5. Jiang, Y., Liu, M., Spencer, C.A. and Price, D.H. 2004. Involvement of transcription termination factor 2 in mitotic repression of transcription elongation. *Mol. Cell* 14: 375-385.
6. Yu, L.R., Zhu, Z., Chan, K.C., Issaq, H.J., Dimitrov, D.S. and Veenstra, T.D. 2007. Improved titanium dioxide enrichment of phosphopeptides from HeLa cells and high confident phosphopeptide identification by cross-validation of MS/MS and MS/MS/MS spectra. *J. Proteome Res.* 6: 4150-4162.

CHROMOSOMAL LOCATION

Genetic locus: (mouse) mapping to 3 F2.2.

PRODUCT

TTF2 (m): 293T Lysate represents a lysate of mouse TTF2 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

TTF2 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive TTF2 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.

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.