# TTF2 (P-17): sc-54432



The Power to Question

## **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**

- 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.
- 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.
- 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: Ttf2 (mouse) mapping to 3 F2.2.

#### SOURCE

TTF2 (P-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TTF2 of mouse origin.

### **PRODUCT**

Each vial contains 200  $\mu g$  lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-54432 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-54432 X, 200  $\mu g/0.1$  ml.

#### **APPLICATIONS**

TTF2 (P-17) is recommended for detection of TTF2 of mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for TTF2 siRNA (m): sc-77415, TTF2 shRNA Plasmid (m): sc-77415-SH and TTF2 shRNA (m) Lentiviral Particles: sc-77415-V.

TTF2 (P-17) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

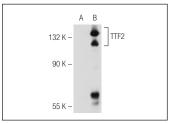
Molecular Weight of TTF2: 130 kDa.

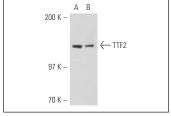
Positive Controls: TTF2 (m): 293T Lysate: sc-124361, F9 cell lysate: sc-2245 or c4 whole cell lysate.

## **RECOMMENDED SECONDARY REAGENTS**

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

### **DATA**





TTF2 (P-17): sc-54432. Western blot analysis of TTF2 expression in non-transfected: sc-117752 (**A**) and mouse TTF2 transfected: sc-124361 (**B**) 293T whole

TTF2 (P-17): sc-54432. Western blot analysis of TTF2 expression in F9 ( $\bf A$ ) and c4 ( $\bf B$ ) whole cell lysates.

#### **STORAGE**

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## **RESEARCH USE**

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