SANTA CRUZ BIOTECHNOLOGY, INC.

TAF II p170 (R-19): sc-8217

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

TFIID is a general transcription factor which initiates preinitiation complex assembly through direct interaction with the TATA promoter element. It is a multisubunit complex consisting of a small TATA-binding polypeptide and other TBP-associated factors (TAFs). Although native TFIID can mediate both activator-independent (basal) and activator-dependent transcription in reconstituted systems, TBP can mediate only basal transcription. The largest subunit (TAF) of TFIID is a protein designated TAF II p250. B-TFIID is an initial factor composed of TBP and TAF II p170 that has been identified as a pol II transcription factor. TAF II p170 has been shown to have potent (d)ATPase activity.

REFERENCES

1. Matsui, T., et al. 1980. Multiple factors required for accurate initiation of transcription by purified RNA polymerase II. J. Biol. Chem. 255: 11992-11996.
2. Buratowski, S., et al. 1989. Five intermediate complexes in transcription initiation by RNA polymerase II. Cell 56: 549-561.
3. Takada, R., et al. 1990. 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.
4. Dynlacht, B.D., et al. 1991. Isolation of coactivators associated with the TATA-binding protein that mediate transcriptional activation. Cell 66: 563-576.
5. Ruppert, S., et al. 1993. Cloning and expression of human TAFII250: a TBP-associated factor implicated in cell-cycle regulation. Nature 362: 175-179.
6. Hisatake, K., et al. 1993. The p250 subunit of native TATA box-binding factor TFIID is the cell-cycle regulatory protein CCG1. Nature 362: 179-181.
7. van der Knaap, J.A., et al. 1997. Cloning of the cDNA for the TATA-binding protein-associated factor II 170 subunit of transcription factor B-TFIID reveals homology to global transcription regulators in yeast and *Drosophila*. Proc. Natl. Acad. Sci. USA 94: 11827-11832.

CHROMOSOMAL LOCATION

Genetic locus: BTAF1 (human) mapping to 10q23.32.

SOURCE

TAF II p170 (R-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of TAF II p170 of human origin.

STORAGE

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

PROTOCOLS

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

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-8217 P, (100 µg 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-8217 X, 200 µg/0.1 ml.

APPLICATIONS

TAF II p170 (R-19) is recommended for detection of TAF II p170 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

TAF II p170 (R-19) is also recommended for detection of TAF II p170 in additional species, including equine, canine, porcine and avian.

Suitable for use as control antibody for TAF II p170 siRNA (h): sc-38500, TAF II p170 shRNA Plasmid (h): sc-38500-SH and TAF II p170 shRNA (h) Lentiviral Particles: sc-38500-V.

TAF II p170 (R-19) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of TAF II p170: 170 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

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) 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.

RESEARCH USE

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