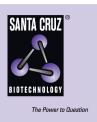
## SANTA CRUZ BIOTECHNOLOGY, INC.

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



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

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- Buratowski, S., et al. 1989. Five intermediate complexes in transcription initiation by RNA polymerase II. Cell 56: 549-561.
- Takada, R., et al. 1990. Identification of human TFIID components and direct interaction between a 250 kDa polypeptide and the TATA boxbinding 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.
- 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.
- 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, \*\*D0 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  $\mu g$  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  $\mu g$  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-8217 X, 200  $\mu g/0.1$  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) Immunofluo-rescence: 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.