SANTA CRUZ BIOTECHNOLOGY, INC.

TAF II p170 (BTA3D61): sc-81391

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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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; Btaf1 (mouse) mapping to 19 C2.

SOURCE

TAF II p170 (BTA3D61) is a mouse monoclonal antibody raised against a recombinant protein corresponding to the C-terminal region of TAF II p170 of human origin.

PRODUCT

Each vial contains 100 µg IgG_1 in 1.0 ml of PBS with < 0.1% sodium azide and 1.0% stabilizer protein.

STORAGE

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

APPLICATIONS

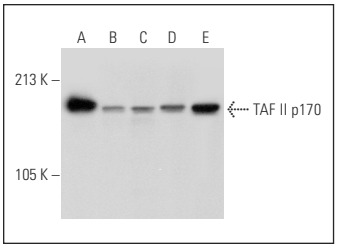
TAF II p170 (BTA3D61) is recommended for detection of TAF II p170 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 µg per 1 x 10^6 cells).

Suitable for use as control antibody for TAF II p170 siRNA (h): sc-38500, TAF II p170 siRNA (m): sc-154049, TAF II p170 shRNA Plasmid (h): sc-38500-SH, TAF II p170 shRNA Plasmid (m): sc-154049-SH, TAF II p170 shRNA (h) Lentiviral Particles: sc-38500-V and TAF II p170 shRNA (m) Lentiviral Particles: sc-154049-V.

Molecular Weight of TAF II p170: 170 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210, HeLa whole cell lysate: sc-2200 or F2408 whole cell lysate.

DATA



TAF II p170 (BTA3D61): sc-81391. Western blot analysis of TAF II p170 expression in HEK293 (**A**), Hep G2 (**B**), MOLT-4 (**C**), Raji (**D**) and Ramos (**E**) whole cell lysates.

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.