

TAF II p100 (E-9): sc-376932

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 TATA-binding protein (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. TAF II p100 (TBP-associated factor II100), also known as TAF5 or TAFII100, is the third largest subunit of human TFIID. It contains six WD40 repeats at the C-terminus and has an N-terminus capable of forming a flexible dimer. TAF II p100 plays an important role in forming the scaffold that is crucial for the assembly of the TFIID complex. TAF II p100 may also be involved in the stabilization of TAF interactions.

REFERENCES

- Matsui, T., et al. 1980. Multiple factors required for accurate initiation of transcription by purified RNA polymerase II. *J. Biol. Chem.* 255: 11992-11996.
- Buratowski, S., et al. 1989. Five intermediate complexes in transcription initiation by RNA polymerase II. *Cell* 56: 549-561.
- Takada, R., et al. 1992. 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.
- Bellorini, M., et al. 1997. CCAAT binding NF-Y-TBP interactions: NF-YB and NF-YC require short domains adjacent to their histone fold motifs for association with TBP basic residues. *Nucleic Acids Res.* 25: 2174-2181.
- Tao, Y., et al. 1997. Specific interactions and potential functions of human TAF II p100. *J. Biol. Chem.* 272: 6714-6721.

CHROMOSOMAL LOCATION

Genetic locus: TAF5 (human) mapping to 10q24.33; Taf5 (mouse) mapping to 19 C3.

SOURCE

TAF II p100 (E-9) is a mouse monoclonal antibody raised against amino acids 246-363 mapping within an internal region of TAF II p100 of human origin.

PRODUCT

Each vial contains 200 µg IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

TAF II p100 (E-9) is available conjugated to agarose (sc-376932 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-376932 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-376932 PE), fluorescein (sc-376932 FITC), Alexa Fluor® 488 (sc-376932 AF488), Alexa Fluor® 546 (sc-376932 AF546), Alexa Fluor® 594 (sc-376932 AF594) or Alexa Fluor® 647 (sc-376932 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-376932 AF680) or Alexa Fluor® 790 (sc-376932 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

TAF II p100 (E-9) is recommended for detection of TAF II p100 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

TAF II p100 (E-9) is also recommended for detection of TAF II p100 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for TAF II p100 siRNA (h): sc-38498, TAF II p100 siRNA (m): sc-154044, TAF II p100 shRNA Plasmid (h): sc-38498-SH, TAF II p100 shRNA Plasmid (m): sc-154044-SH, TAF II p100 shRNA (h) Lentiviral Particles: sc-38498-V and TAF II p100 shRNA (m) Lentiviral Particles: sc-154044-V.

Molecular Weight (predicted) of short/long TAF II p100 isoforms: 81/87 kDa.

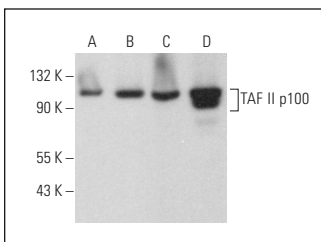
Molecular Weight (observed) of TAF II p100: 80-101 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201, MCF7 whole cell lysate: sc-2206 or TAF II p100 (m): 293 Lysate: sc-179574.

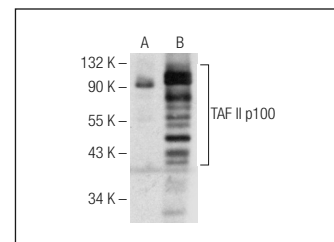
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



TAF II p100 (E-9): sc-376932. Western blot analysis of TAF II p100 expression in A-431 (A), MCF7 (B) and 3T3-L1 (C) whole cell lysates and NIH/3T3 nuclear extract (D).



TAF II p100 (E-9): sc-376932. Western blot analysis of TAF II p100 expression in non-transfected: sc-110760 (A) and mouse TAF II p100 transfected: sc-179574 (B) 293 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.