

TAF II p100 (H-155): sc-98823

BACKGROUND

TFIID is a general transcription factor which initiates preinitiation complex assembly through direct interaction with the TATA promoter element. It is a multi-subunit 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

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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. 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.
5. Tao, Y., et al. 1997. Specific interactions and potential functions of human TAF II p100. *J. Biol. Chem.* 272: 6714-6721.
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7. Boyer-Guittaut, M., et al. 2005. SUMO-1 modification of human transcription factor (TF) IID complex subunits: inhibition of TFIID promoter-binding activity through SUMO-1 modification of hsTAF5. *J. Biol. Chem.* 280: 9937-9945.

CHROMOSOMAL LOCATION

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

SOURCE

TAF II p100 (H-155) is a rabbit polyclonal 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 in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

RESEARCH USE

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

APPLICATIONS

TAF II p100 (H-155) is recommended for detection of TAF II p100 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 solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

TAF II p100 (H-155) is also recommended for detection of TAF II p100 in additional species, including equine, canine, bovine, porcine and avian.

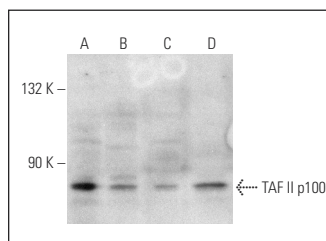
Suitable for use as control antibody for TAF II p100 siRNA (h): sc-38498, TAF II p100 siRNA (m): sc-154044, TAF II p100 shRNA Plasmid (h): sc-38498-SH, TAF II p100 shRNA Plasmid (m): sc-154044-SH, TAF II p100 shRNA (h) Lentiviral Particles: sc-38498-V and TAF II p100 shRNA (m) Lentiviral Particles: sc-154044-V.

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: HeLa nuclear extract: sc-2120, HeLa whole cell lysate: sc-2200 or MCF7 whole cell lysate: sc-2206.

DATA



TAF II p100 (H-155): sc-98823. Western blot analysis of TAF II p100 expression in HeLa nuclear extract (A) and HeLa (B), MCF7 (C) and U-251-MG (D) 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.

PROTOCOLS

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



Try **TAF II p100 (E-9): sc-376932** or **TAF II p100 (H-3): sc-374644**, our highly recommended monoclonal alternatives to TAF II p100 (H-155).