

TAF II p100 (D-18): sc-109058

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

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- 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.
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- Tao, Y., et al. 1997. Specific interactions and potential functions of human TAFII100. *J. Biol. Chem.* 272: 6714-6721.
- Walker, A.K. and Blackwell, T.K. 2003. A broad but restricted requirement for TAF-5 (human TAFII100) for embryonic transcription in *Caenorhabditis elegans*. *J. Biol. Chem.* 278: 6181-6186.

CHROMOSOMAL LOCATION

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

SOURCE

TAF II p100 (D-18) is an affinity purified goat polyclonal antibody raised against a peptide 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.

Blocking peptide available for competition studies, sc-109058 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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 p100 (D-18) 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 (D-18) is also recommended for detection of TAF II p100 in additional species, including equine, canine, bovine, porcine and avian.

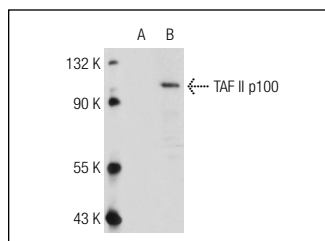
Suitable for use as control antibody for TAF II p100 siRNA (h): sc-38498, TAF II p100 siRNA (m): sc-154044, TAF II p100 shRNA Plasmid (h): sc-38498-SH, TAF II p100 shRNA Plasmid (m): sc-154044-SH, TAF II p100 shRNA (h) Lentiviral Particles: sc-38498-V and TAF II p100 shRNA (m) Lentiviral Particles: sc-154044-V.

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: A-431 nuclear extract: sc-2122, TAF II p100 (m): 293 Lysate: sc-179574 or HeLa nuclear extract: sc-2120.

DATA



TAF II p100 (D-18): sc-109058. 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.

SELECT PRODUCT CITATIONS

- Gegonne, A., et al. 2012. The general transcription factor TAF7 is essential for embryonic development but not essential for the survival or differentiation of mature T cells. *Mol. Cell. Biol.* 32: 1984-1997.

RESEARCH USE

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


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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 (D-18).