

TAF II p20 (B-6): sc-514619

BACKGROUND

TFIID is a general transcription factor that initiates preinitiation complex assembly through direct interaction with the TATA promoter element. Functioning as a multisubunit complex consisting of a small TATA-binding polypeptide and other TBP-associated factors (TAFs), TFIID mediates promoter responses to various transcriptional activators and repressors. TAF II p20, also known as TAF12, TAF15, TAF2J or TAFII20, is a 161 amino acid subunit of TFIID that localizes to the nucleus and contains one histone-fold domain. Expressed ubiquitously, TAF II p20 interacts with other members of the TFIID complex and, via this interaction, plays a role in mediating transcriptional activation and repression. Two isoforms of TAF II p20 exist due to alternative splicing events.

REFERENCES

- Holstege, F.C., et al. 1997. Three transitions in the RNA polymerase II transcription complex during initiation. *EMBO J.* 16: 7468-7480.
- Ogryzko, V.V., et al. 1998. Histone-like TAFs within the PCAF histone acetylase complex. *Cell* 94: 35-44.
- Gangloff, Y.G., et al. 2000. The human TFIID components TAF(II)135 and TAF(II)20 and the yeast SAGA components ADA1 and TAF(II)68 heterodimerize to form histone-like pairs. *Mol. Cell. Biol.* 20: 340-351.
- Werten, S., et al. 2002. Crystal structure of a subcomplex of human transcription factor TFIID formed by TATA binding protein-associated factors hTAF4 (hTAF(II)135) and hTAF12 (hTAF(II)20). *J. Biol. Chem.* 277: 45502-45509.
- Guermah, M., et al. 2003. The TBN protein, which is essential for early embryonic mouse development, is an inducible TAFII implicated in adipogenesis. *Mol. Cell* 12: 991-1001.

CHROMOSOMAL LOCATION

Genetic locus: TAF12 (human) mapping to 1p35.3; Taf12 (mouse) mapping to 4 D2.3.

SOURCE

TAF II p20 (B-6) is a mouse monoclonal antibody raised against amino acids 1-161 representing full length TAF II p20 of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

TAF II p20 (B-6) is available conjugated to agarose (sc-514619 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-514619 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-514619 PE), fluorescein (sc-514619 FITC), Alexa Fluor® 488 (sc-514619 AF488), Alexa Fluor® 546 (sc-514619 AF546), Alexa Fluor® 594 (sc-514619 AF594) or Alexa Fluor® 647 (sc-514619 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-514619 AF680) or Alexa Fluor® 790 (sc-514619 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

TAF II p20 (B-6) is recommended for detection of TAF II p20 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).

Suitable for use as control antibody for TAF II p20 siRNA (h): sc-88359, TAF II p20 siRNA (m): sc-106595, TAF II p20 shRNA Plasmid (h): sc-88359-SH, TAF II p20 shRNA Plasmid (m): sc-106595-SH, TAF II p20 shRNA (h) Lentiviral Particles: sc-88359-V and TAF II p20 shRNA (m) Lentiviral Particles: sc-106595-V.

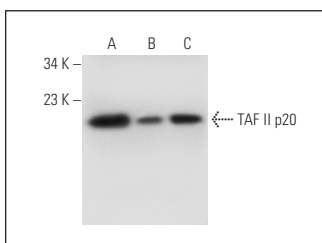
Molecular Weight of TAF II p20: 21 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204; HeLa whole cell lysate: sc-2200 or Neuro-2A whole cell lysate: sc-364185.

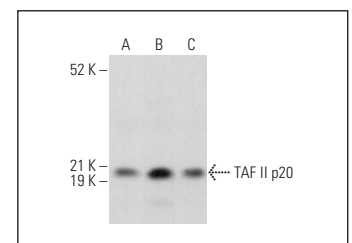
RECOMMENDED SECONDARY REAGENTS

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 p20 (B-6): sc-514619. Western blot analysis of TAF II p20 expression in Jurkat (A) and HeLa (B) nuclear extracts and Y79 whole cell lysate (C).



TAF II p20 (B-6): sc-514619. Western blot analysis of TAF II p20 expression in A-431 (A), Neuro-2A (B) and BC₃H1 (C) 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.

PROTOCOLS

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