

# TAF II p20 (G-16): sc-103891

## 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

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- 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.
- Cavusoglu, N., et al. 2003. Novel subunits of the TATA binding protein free TAFII-containing transcription complex identified by matrix-assisted laser desorption/ionization-time of flight mass spectrometry following one-dimensional gel electrophoresis. *Proteomics* 3: 217-223.

## CHROMOSOMAL LOCATION

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

## SOURCE

TAF II p20 (G-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TAF II p20 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-103891 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## RESEARCH USE

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

## APPLICATIONS

TAF II p20 (G-16) is recommended for detection of TAF II p20 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); non cross-reactive with other TAF II p family members.

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.

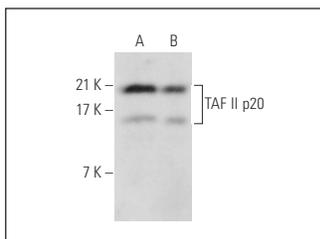
Molecular Weight of TAF II p20: 21 kDa.

Positive Controls: Jurkat nuclear extract: sc-2132 or HeLa nuclear extract: sc-2120.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



TAF II p20 (G-16): sc-103891. Western blot analysis of TAF II p20 expression in Jurkat (A) and HeLa (B) nuclear extracts.

## STORAGE

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



Try **TAF II p20 (B-6): sc-514619**, our highly recommended monoclonal alternative to TAF II p20 (G-16).