

# TAF II p55 (E-18): sc-82754

## BACKGROUND

TFIID is a general transcription factor that facilitates the preinitiation complex assembly through direct interactions with the TATA promoter element. A multi-subunit complex, TFIID consists of a small TATA-binding polypeptide and several TBP-associated factors (TAFs). TAF II p55 (transcription initiation factor TFIID 55 kDa subunit), also known as TAF7, TAF2F or TAFII55, is a ubiquitously expressed 349 amino acid component of the TFIID complex. Localized to the nucleus, TAF II p55 interacts directly with the largest subunit of the TFIID complex (TAF II p250), as well as with multiple proteins involved in transcriptional activation. Through these interactions, TAF II p55 inhibits the acetyltransferase activity of its binding partners (such as TAF II p250), thereby suppressing their ability to stimulate transcription. TAF II p55 is, therefore, thought to act as a checkpoint regulator that delays transcription until the preinitiation complex is fully assembled.

## REFERENCES

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- Lavigne, A.C., et al. 1996. Multiple interactions between hTAFII55 and other TFIID subunits. Requirements for the formation of stable ternary complexes between hTAFII55 and the TATA-binding protein. *J. Biol. Chem.* 271: 19774-19780.
- Gegonne, A., et al. 2001. TAFII55 binding to TAFII250 inhibits its acetyltransferase activity. *Proc. Natl. Acad. Sci. USA* 98: 12432-12437.
- Zhou, T. and Chiang, C.M. 2001. The intronless and TATA-less human TAF(II)55 gene contains a functional initiator and a downstream promoter element. *J. Biol. Chem.* 276: 25503-25511.
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- Fukuchi, J., et al. 2004. TATA-binding protein-associated factor 7 regulates polyamine transport activity and polyamine analog-induced apoptosis. *J. Biol. Chem.* 279: 29921-29929.
- Gegonne, A., et al. 2006. TAF7: a possible transcription initiation checkpoint regulator. *Proc. Natl. Acad. Sci. USA* 103: 602-607.

## CHROMOSOMAL LOCATION

Genetic locus: TAF7 (human) mapping to 5q31.3; Taf7 (mouse) mapping to 18 B3.

## SOURCE

TAF II p55 (E-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of TAF II p55 of human origin.

## STORAGE

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

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-82754 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-82754 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

TAF II p55 (E-18) is recommended for detection of TAF II p55 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 family members.

TAF II p55 (E-18) is also recommended for detection of TAF II p55 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for TAF II p55 siRNA (h): sc-76627, TAF II p55 siRNA (m): sc-76628, TAF II p55 shRNA Plasmid (h): sc-76627-SH, TAF II p55 shRNA Plasmid (m): sc-76628-SH, TAF II p55 shRNA (h) Lentiviral Particles: sc-76627-V and TAF II p55 shRNA (m) Lentiviral Particles: sc-76628-V.

TAF II p55 (E-18) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of TAF II p55: 55 kDa.

Positive Controls: MCF7 whole cell lysate: sc-2206 or HeLa whole cell lysate: sc-2200.

## 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) 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.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **TAF II p55 (SQ-8): sc-101167**, our highly recommended monoclonal alternative to TAF II p55 (E-18).