

TAF II p55 (H-31): sc-292282

BACKGROUND

TFIID is a general transcription factor that facilitates the preinitiation complex assembly through direct interactions with the TATA promoter element. A multisubunit 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., et al. 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.
- Munz, C., et al. 2003. TAF7 (TAFII55) plays a role in the transcription activation by c-Jun. *J. Biol. Chem.* 278: 21510-21516.
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CHROMOSOMAL LOCATION

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

SOURCE

TAF II p55 (H-31) is a rabbit polyclonal antibody raised against amino acids 21-51 mapping near the N-terminus of TAF II p55 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. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-292282 X, 200 µg/0.1 ml.

RESEARCH USE

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

APPLICATIONS

TAF II p55 (H-31) 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), 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 p55 (H-31) is also recommended for detection of TAF II p55 in additional species, including canine, bovine, porcine and avian.

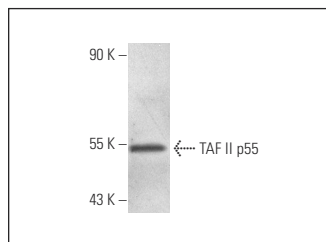
Suitable for use as control antibody for TAF II p55 siRNA (h): sc-76627, TAF II p55 siRNA (m): sc-76628, TAF II p55 shRNA Plasmid (h): sc-76627-SH, TAF II p55 shRNA Plasmid (m): sc-76628-SH, TAF II p55 shRNA (h) Lentiviral Particles: sc-76627-V and TAF II p55 shRNA (m) Lentiviral Particles: sc-76628-V.

TAF II p55 (H-31) 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, A-431 whole cell lysate: sc-2201 or HeLa whole cell lysate: sc-2200.

DATA



TAF II p55 (H-31): sc-292282. Western blot analysis of TAF II p55 expression in A-431 whole cell lysate.

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 p55 (SQ-8): sc-101167**, our highly recommended monoclonal alternative to TAF II p55 (H-31).