

# TAF I p48 (C-19): sc-6571

## BACKGROUND

For gene transcription governed by RNA polymerase I, the human transcription factor SL1 (mouse TIF-IB) directs the assembly of initiation complexes at the promoter. Like TFIID, which directs transcription by RNA polymerase II, SL1/TIF-IB contains the TATA-binding protein (TBP) and a set of TBP-associated factors (TAFs). The three TAF I subunits, hTAF I p110, hTAF I p63 and hTAF p48 (or mouse TAF I p95, TAF I p68 and TAF I p48) are all integral components of SL1/TIF-IB. The mutually exclusive binding of either TAF I or TAF II subunits to TBP is believed to direct the formation of promoter and RNA polymerase-specific complexes.

## REFERENCES

1. Learned, R.M., et al. 1985. Purification and characterization of a transcription factor that confers promoter specificity to human RNA polymerase I. *Mol. Cell. Biol.* 5: 1358-1369.
2. Clos, J., et al. 1986. A purified transcription factor (TIF-IB) binds to essential sequences of the mouse rDNA promoter. *Proc. Natl. Acad. Sci. USA* 83: 604-608.

## CHROMOSOMAL LOCATION

Genetic locus: TAF1A (human) mapping to 1q41; Taf1a (mouse) mapping to 1.

## SOURCE

TAF I p48 (C-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of TAF I p48 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-6571 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-6571 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

TAF I p48 (C-19) is recommended for detection of TAF I p48 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).

Suitable for use as control antibody for TAF I p48 siRNA (h): sc-38486, TAF I p48 siRNA (m): sc-38487, TAF I p48 shRNA Plasmid (h): sc-38486-SH, TAF I p48 shRNA Plasmid (m): sc-38487-SH, TAF I p48 shRNA (h) Lentiviral Particles: sc-38486-V and TAF I p48 shRNA (m) Lentiviral Particles: sc-38487-V.

TAF I p48 (C-19) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

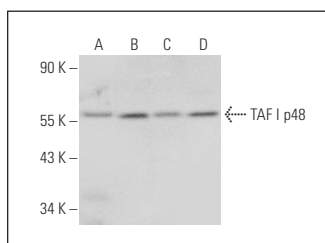
Molecular Weight of TAF I p48: 53 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, Jurkat whole cell lysate: sc-2204 or A-431 whole cell lysate: sc-2201.

## 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 I p48 (C-19): sc-6571. Western blot analysis of TAF I p48 expression in A431 nuclear extract (A) and Y79 (B), HeLa (C) and Jurkat (D) whole cell lysates.

## SELECT PRODUCT CITATIONS

1. Kao, C.F., et al. 2004. Activation of RNA polymerase I transcription by hepatitis C virus core protein. *J. Biomed. Sci.* 11: 72-94.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **TAF I p48 (A-10): sc-393600**, our highly recommended monoclonal alternative to TAF I p48 (C-19).