

TAF I p48 (M-19): sc-6572

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.

CHROMOSOMAL LOCATION

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

SOURCE

TAF I p48 (M-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of TAF I p48 of mouse 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-6572 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-6572 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

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

Molecular Weight of TAF I p48: 53 kDa.

Positive Controls: A-431 nuclear extract: sc-2122, Y79 cell lysate: sc-2240 or HeLa whole cell lysate: sc-2200.

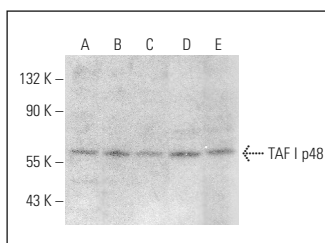
STORAGE

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.

DATA



TAF I p48 (M-19): sc-6572. Western blot analysis of TAF I p48 expression in A-431 nuclear extract (A) and Y79 (B), HeLa (C), Jurkat (D) and K-562 (E) whole cell lysates.

SELECT PRODUCT CITATIONS

- Larminie, C., et al. 1999. Activation of RNA polymerase III transcription in cells transformed by Simian virus 40. *Mol. Cell. Biol.* 19: 4927-4934.
- Scott, P.H., et al. 2001. Regulation of RNA polymerase III transcription during cell cycle entry. *J. Biol. Chem.* 276: 1005-1014.
- Felton-Edkins, Z.A., et al. 2002. Multiple mechanisms contribute to the activation of RNA polymerase III transcription in cells transformed by papovaviruses. *J. Biol. Chem.* 277: 48182-48191.
- Johnston, I.M., et al. 2002. CK2 forms a stable complex with TFIIB and activates RNA polymerase III transcription in human cells. *Mol. Cell. Biol.* 22: 3757-3768.
- Felton-Edkins, Z.A., et al. 2003. The mitogen-activated protein (MAP) kinase ERK induces tRNA synthesis by phosphorylating TFIIB. *EMBO J.* 22: 2422-2432.
- Felton-Edkins, Z.A., et al. 2006. Epstein-Barr virus induces cellular transcription factors to allow active expression of EBV genes by RNA polymerase III. *J. Biol. Chem.* 281: 3387-3388.
- Young, D.W., et al. 2007. Mitotic occupancy and lineage-specific transcriptional control of rRNA genes by RUNX2. *Nature* 445: 442-446.
- Kenneth, N.S., et al. 2007. TRRAP and GCN5 are used by c-Myc to activate RNA polymerase III transcription. *Proc. Natl. Acad. Sci. USA* 104: 14917-14922.
- Müller, C., et al. 2010. Nucleolar retention of a translational C/EBP α isoform stimulates rDNA transcription and cell size. *EMBO J.* 29: 897-909.

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