

TAF II p32 (N-16): sc-1247

BACKGROUND

TFIID is a general transcription factor that facilitates the preinitiation complex assembly through direct interactions with the TATA promoter element. TFIID is a multisubunit complex consisting of a small TATA-binding polypeptide and other TBP-associated factors (TAFs). The TAF II family members include p18, p28, p32, p100, p130, p170 and p250, which is the largest subunit of TFIID. TAF II p32 is the human homologue of the *Drosophila* TAFII40 and is upregulated during apoptosis. TAF II p32 interacts with the activation domain of the viral protein 16, TFIIB and the class II transactivator (CIITA) to modulate transcription. The human and murine TAF II p32 proteins are distinct isoforms, designated TAF II p32a and b, respectively, and they are thought to have individual roles in regulation. TAF II p28 and TAF II p18 interact with one another *in vitro* and intracellularly, and both interact with TBP through distinct domains. TAF II p28 potentiates transactivation of the estrogen and vitamin D₃ receptors (ER and VDR) and is the limiting factor in the RXR α activation pathway.

CHROMOSOMAL LOCATION

Genetic locus: TAF9 (human) mapping to 5q13.2; Taf9 (mouse) mapping to 13 D1.

SOURCE

TAF II p32 (N-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of TAF II p32 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-1247 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-1247 X, 200 μ g/0.1 ml.

APPLICATIONS

TAF II p32 (N-16) is recommended for detection of TAF II p32 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (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 p32 (N-16) is also recommended for detection of TAF II p32 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for TAF II p32 siRNA (h): sc-38496, TAF II p32 siRNA (m): sc-38497, TAF II p32 shRNA Plasmid (h): sc-38496-SH, TAF II p32 shRNA Plasmid (m): sc-38497-SH, TAF II p32 shRNA (h) Lentiviral Particles: sc-38496-V and TAF II p32 shRNA (m) Lentiviral Particles: sc-38497-V.

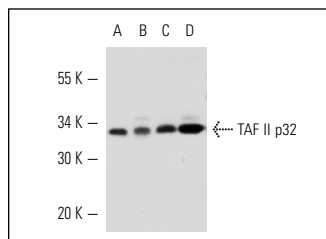
TAF II p32 (N-16) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of TAF II p32: 32 kDa.

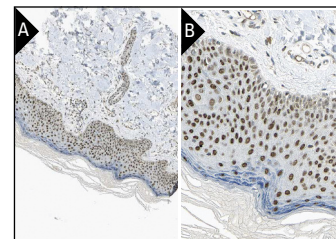
STORAGE

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

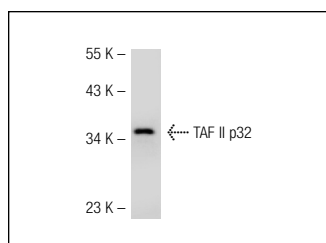
DATA



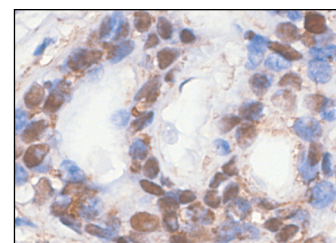
TAF II p32 (N-16): sc-1247. Western blot analysis of TAF II p32 expression in MM-142 (A), A-431 (B), MCF7 (C) and HeLa (D) nuclear extracts.



TAF II p32 (N-16): sc-1247. Immunoperoxidase staining of formalin fixed, paraffin-embedded human skin tissue showing nuclear staining of adnexal and epidermal cells (low (A) and high (B) magnification). Kindly provided by The Swedish Human Protein Atlas (HPA) program.



TAF II p32 (N-16): sc-1247. Western blot analysis of TAF II p32 expression in NIH/3T3 whole cell lysate.



TAF II p32 (N-16): sc-1247. Immunoperoxidase staining of formalin-fixed, paraffin-embedded human breast tissue showing nuclear staining of selected cells.

SELECT PRODUCT CITATIONS

- Oh, J., et al. 2005. Host cell nuclear proteins are recruited to cytoplasmic vaccinia virus replication complexes. *J. Virol.* 79: 12852-12860.
- Rovnak, J., et al. 2006. Walleye dermal sarcoma virus retroviral cyclin directly contacts TAF9. *J. Virol.* 80: 12041-12048.
- Baillat, D., et al. 2006. Stromelysin-1 expression is activated *in vivo* by Ets-1 through palindromic head-to-head Ets binding sites present in the promoter. *Oncogene* 25: 5764-5776.
- Liu, X., et al. 2008. STAGA recruits Mediator to the MYC oncoprotein to stimulate transcription and cell proliferation. *Mol. Cell. Biol.* 28: 108-121.
- Roukens, M.G. 2008. Identification of a new site of sumoylation on Tel (ETV6) uncovers a PIAS-dependent mode of regulating Tel function. *Mol. Cell. Biol.* 28: 2342-2357.
- Li, Y., et al. 2012. And-1 is required for the stability of histone acetyltransferase Gcn5. *Oncogene* 31: 643-652.

RESEARCH USE

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