

# TAF II p30 (C-15): sc-109868

## BACKGROUND

TFIID is a general transcription factor that initiates preinitiation complex assembly through direct interaction with the TATA promoter element. Functioning as a multisubunit complex consisting of a small TATA-binding polypeptide and other TBP-associated factors (TAFs), TFIID mediates promoter responses to various transcriptional activators and repressors. TAF II p30, also known as TAF2A, TAF2H or TAFII30, is a 218 amino acid subunit of TFIID. Localized to the nucleus, TAF II p30 plays a role in transcriptional activation and is thought to be necessary for both cell cycle progression and cellular differentiation. Human TAF II p30 can be monomethylated at Lys-189, an event that increases TAF II p30 affinity for RNA polymerase (POLR), thereby enhancing POLR-mediated transcription.

## REFERENCES

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- Metzger, D., et al. 1999. Mammalian TAFII30 is required for cell cycle progression and specific cellular differentiation programmes. *EMBO J.* 18: 4823-4834.
- Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 600475. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
- Liu, X., et al. 2003. c-Myc transformation domain recruits the human STAGA complex and requires TRRAP and GCN5 acetylase activity for transcription activation. *J. Biol. Chem.* 278: 20405-20412.
- Guermah, M., et al. 2003. The TBN protein, which is essential for early embryonic mouse development, is an inducible TAFII implicated in adipogenesis. *Mol. Cell* 12: 991-1001.
- Kouskouti, A., et al. 2004. Gene-specific modulation of TAF10 function by SET9-mediated methylation. *Mol. Cell* 14: 175-182.
- Soutoglou, E., et al. 2005. The nuclear import of TAF10 is regulated by one of its three histone fold domain-containing interaction partners. *Mol. Cell. Biol.* 25: 4092-4104.

## CHROMOSOMAL LOCATION

Genetic locus: TAF10 (human) mapping to 11p15.4; Taf10 (mouse) mapping to 7 E3.

## SOURCE

TAF II p30 (C-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of TAF II p30 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.

Blocking peptide available for competition studies, sc-109868 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

TAF II p30 (C-15) is recommended for detection of TAF II p30 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); non cross-reactive with other TAF II family members.

TAF II p30 (C-15) is also recommended for detection of TAF II p30 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for TAF II p30 siRNA (h): sc-96590, TAF II p30 siRNA (m): sc-154050, TAF II p30 shRNA Plasmid (h): sc-96590-SH, TAF II p30 shRNA Plasmid (m): sc-154050-SH, TAF II p30 shRNA (h) Lentiviral Particles: sc-96590-V and TAF II p30 shRNA (m) Lentiviral Particles: sc-154050-V.

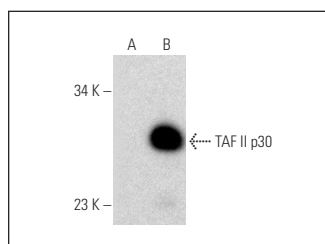
Molecular Weight of TAF II p30: 30 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204 or TAF II p30 (m): 293T Lysate: sc-127627.

## 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 II p30 (C-15): sc-109868. Western blot analysis of TAF II p30 expression in non-transfected: sc-117752 (A) and mouse TAF II p30 transfected: sc-127627 (B) 293T whole cell lysates.

## 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.