

# TAF II p105 (N-16): sc-85178

## BACKGROUND

TFIID is a general transcription factor that facilitates the preinitiation complex assembly through direct interactions with the TATA promoter element. TFIID is a multi-subunit complex consisting of a small TATA-binding polypeptide and other TBP-associated factors (TAFs). TAF II p105, also called TAF4B, is a cell-type specific transcriptional co-activator that is a component of the TFIID complex. Expressed primarily in B cells and ovarian granulosa cells, TAF II p105 can interact with OCBA/POU2AF1 to activate B cell-specific octamer-dependent transcription. Additionally, TAF II p105 plays an important role in co-activating the transcription factor NF $\kappa$ B and is essential for activation of anti-apoptotic genes such as TNFAIP3. Through its C-terminal histone-fold domain, TAF II p105 can form a heterodimer with TAF12/TAF II p20 that can then form a transcriptional activating octamer with several other TAFs. This protein is localized to the nucleus with cytoplasmic export mediated by a CRM1-independent export pathway. There are two isoforms expressed by alternative splicing.

## REFERENCES

1. Dikstein, R., et al. 1996. Human TAF II 105 is a cell type-specific TFIID subunit related to hTAF II 130. *Cell* 87: 137-146.
2. Freiman, R.N., et al. 2001. Requirement of tissue-selective TBP-associated factor TAF II 105 in ovarian development. *Science* 293: 2084-2087.
3. Rashevsky-Finkel, A., et al. 2001. A composite nuclear export signal in the TBP-associated factor TAF II 105. *J. Biol. Chem.* 276: 44963-44969.
4. Freiman, R.N., et al. 2002. Redundant role of tissue-selective TAF II 105 in B lymphocytes. *Mol. Cell. Biol.* 22: 6564-6572.

## CHROMOSOMAL LOCATION

Genetic locus: TAF4B (human) mapping to 18q11.2; Taf4b (mouse) mapping to 18 A1.

## SOURCE

TAF II p105 (N-16) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the N-terminus of TAF II p105 of human origin.

## PRODUCT

Each vial contains 100  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-85178 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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

## APPLICATIONS

TAF II p105 (N-16) is recommended for detection of TAF II p105 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ 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 p105 (N-16) is also recommended for detection of TAF II p105 in additional species, including bovine and porcine.

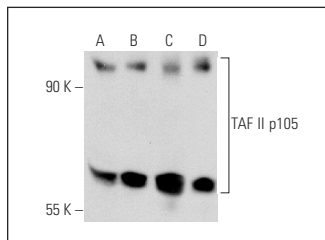
Suitable for use as control antibody for TAF II p105 siRNA (h): sc-76625, TAF II p105 siRNA (m): sc-154045, TAF II p105 shRNA Plasmid (h): sc-76625-SH, TAF II p105 shRNA Plasmid (m): sc-154045-SH, TAF II p105 shRNA (h) Lentiviral Particles: sc-76625-V and TAF II p105 shRNA (m) Lentiviral Particles: sc-154045-V.

Molecular Weight of TAF II p105 Isoform 1: 63 kDa.

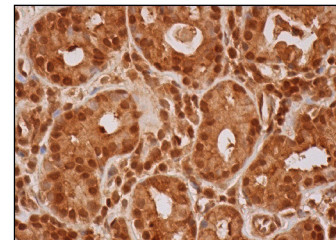
Molecular Weight of TAF II p105 Isoform 2: 105 kDa.

Positive Controls: BJAB whole cell lysate: sc-2207, Ramos cell lysate: sc-2216 or IB4 whole cell lysate: sc-364780.

## DATA



TAF II p105 (N-16): sc-85178. Western blot analysis of TAF II p105 expression in Raji (A), Ramos (B), BJAB (C) and IB4 (D) whole cell lysates.



TAF II p105 (N-16): sc-85178. Immunoperoxidase staining of formalin fixed, paraffin-embedded human salivary gland tissue showing nuclear and cytoplasmic staining of glandular cells.

## RESEARCH USE

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



Try **TAF II p105 (TAFAD26A): sc-81122**, our highly recommended monoclonal alternative to TAF II p105 (N-16).