

TAF II p105 (TAFAD26A): sc-81122

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 κ 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.
5. Falender, A.E., et al. 2005. Maintenance of spermatogenesis requires TAF4B, a gonad-specific subunit of TFIID. *Genes Dev.* 19: 794-803.
6. Falender, A.E., et al. 2005. TAF4B, a TBP associated factor, is required for oocyte development and function. *Dev. Biol.* 288: 405-419.
7. Geles, K.G., et al. 2006. Cell-type-selective induction of c-Jun by TAF4B directs ovarian-specific transcription networks. *Proc. Natl. Acad. Sci. USA* 103: 2594-2599.

CHROMOSOMAL LOCATION

Genetic locus: TAF4B (human) mapping to 18q11.2.

SOURCE

TAF II p105 (TAFAD26A) is a mouse monoclonal antibody raised against a recombinant protein corresponding to a region near the C-terminus of TAF II p105 of human origin.

PRODUCT

Each vial contains 100 μ g IgG₁ in 1.0 ml of PBS with < 0.1% sodium azide and 1.0% stabilizer protein.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

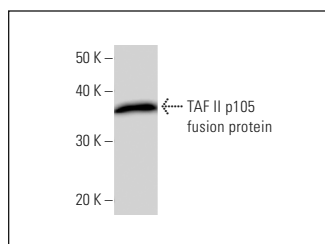
APPLICATIONS

TAF II p105 (TAFAD26A) is recommended for detection of TAF II p105 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)].

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

Molecular Weight of TAF II p105: 105 kDa.

DATA



TAF II p105 (TAFAD26A): sc-81122. Western Blot analysis of human recombinant TAF II p105 fusion protein.

STORAGE

For immediate and continuous use, store at 4° C for up to one month. For sporadic use, freeze in working aliquots in order to avoid repeated freeze/thaw cycles. If turbidity is evident upon prolonged storage, clarify solution by centrifugation.

RESEARCH USE

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