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# TAF9B (h2): 293 Lysate: sc-174088

## BACKGROUND

In eukaryotic systems, the process of initiating transcription from protein-coding genes requires the presence of RNA polymerase II and a broad family of auxiliary transcription factors. Such factors can be divided into two major functional classes: the basal factors that mediate the transcription of all Pol II genes, including TFIIA, TFIIB, TFIID, TFIIE, TFIIIF and TFIIH; and sequence-specific factors that regulate gene expression. TFIID, one of the basal transcription factors, facilitates the preinitiation complex assembly through direct interactions with the TATA promoter element. TAF9B (transcription initiation factor TFIID subunit 9B), also known as TAF9L, is similar to TAF9 and is a component of the TFIID complex. Essential for cell viability, TAF9B is involved in transcriptional activation through its N-terminal association with TP53/p53, a protein essential for transcription. TAF9B is ubiquitously expressed and is localized to the nucleus.

## REFERENCES

1. Matsui, T., et al. 1980. Multiple factors required for accurate initiation of transcription by purified RNA polymerase II. *J. Biol. Chem.* 255: 11992-11996.
2. Buratowski, S., et al. 1989. Five intermediate complexes in transcription initiation by RNA polymerase II. *Cell* 56: 549-561.
3. Takada, R., et al. 1990. Identification of human TFIID components and direct interaction between a 250 kDa polypeptide and the TATA box-binding protein (TFIIDt). *Proc. Natl. Acad. Sci. USA* 89: 11809-11813.
4. Chen, Z. and Manley, J.L. 2003. *In vivo* functional analysis of the histone 3-like TAF9 and a TAF9-related factor, TAF9L. *J. Biol. Chem.* 278: 35172-35183.
5. Frontini, M., et al. 2005. TAF9B (formerly TAF9L) is a bona fide TAF that has unique and overlapping roles with TAF9. *Mol. Cell. Biol.* 25: 4638-4649.

## CHROMOSOMAL LOCATION

Genetic locus: TAF9B (human) mapping to Xq21.1.

## PRODUCT

TAF9B (h2): 293 Lysate represents a lysate of human TAF9B transfected 293 cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

## APPLICATIONS

TAF9B (h2): 293 Lysate is suitable as a Western Blotting positive control for human reactive TAF9B antibodies. Recommended use: 10-20 µl per lane.

Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

TAF9B (3365C4a): sc-81125 is recommended as a positive control antibody for Western Blot analysis of enhanced human TAF9B expression in TAF9B transfected 293 cells (starting dilution 1:100, dilution range 1:100-1:1,000).

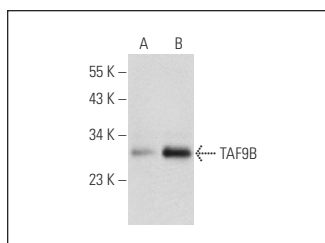
## STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## RESEARCH USE

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

## DATA



TAF9B (3365C4a): sc-81125. Western blot analysis of TAF9B expression in non-transfected 293: sc-110760 (A) and human TAF9B transfected 293: sc-174088 (B) whole cell lysates.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.