SANTA CRUZ BIOTECHNOLOGY, INC.

TADA3L (m4): 293T Lysate: sc-118236

BACKGROUND

TADA3L (transcriptional adapter 3-like, STAF54) is a 432 amino acid protein encoded by the human gene TADA3L. TADA3L is a ubiquitously expressed nuclear protein that functions as a component of the PCAF (p300/CBP-associated factor) complex. The PCAF complex is capable of efficiently acetylating histones in a nucleosomal context. The PCAF complex is the human homolog of the yeast SAGA complex. TADA3L interacts with the E6 gene and is a target of E6-induced degradation. TADA3L binds selectively to the high-risk HPV E6 proteins and immortalization-competent E6 mutants. TADA3L functions as a co-activator for p53-mediated transactivation by stabilizing p53 protein.

REFERENCES

1. Sterner, D.E., et al. 2006. Sumoylation of the yeast Gcn5 protein. Biochemistry 45: 1035-1042.
2. Guelman, S., et al. 2006. Host cell factor and an uncharacterized SANT domain protein are stable components of ATAC, a novel dADA2A/dGcn5-containing histone acetyltransferase complex in *Drosophila*. Mol. Cell. Biol. 26: 871-882.
3. Guelman, S., et al. 2006. The essential gene WDA encodes a WD40 repeat subunit of *Drosophila* SAGA required for Histone H3 acetylation. Mol. Cell. Biol. 26: 7178-7189.
4. Nag, A., et al. 2007. An essential role of human ADA3 in p53 acetylation. J. Biol. Chem. 282: 8812-8820.
5. Barrios, A., et al. 2007. Expression and purification of recombinant yeast ADA2/ADA3/Gcn5 and Piccolo NuA4 histone acetyltransferase complexes. Methods 41: 271-277.
6. Grau, B., et al. 2007. Transcriptional adaptor ADA3 of *Drosophila melanogaster* is required for histone modification, position effect variegation, and transcription. Mol. Cell. Biol. 28: 376-385.

CHROMOSOMAL LOCATION

Genetic locus: Tada3l (mouse) mapping to 6 E3.

PRODUCT

TADA3L (m4): 293T Lysate represents a lysate of mouse TADA3L transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

TADA3L (m4): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive TADA3L antibodies. Recommended use: 10-20 µl per lane.

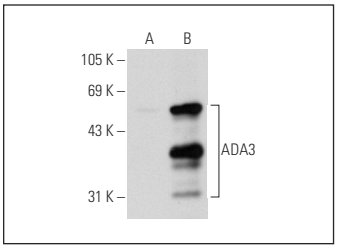
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

TADA3L (H-1): sc-166119 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse TADA3L expression in TADA3L transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

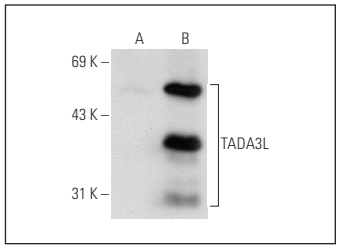
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



TADA3L (H-1): sc-166119. Western blot analysis of TADA3L expression in non-transfected: sc-117752 (**A**) and mouse TADA3L transfected: sc-118236 (**B**) 293T whole cell lysates.



TADA3L (D-10): sc-166118. Western blot analysis of TADA3L expression in non-transfected: sc-117752 (**A**) and mouse TADA3L transfected: sc-118236 (**B**) 293T whole cell lysates.

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.

PROTOCOLS

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