

TADA3L (m3): 293T Lysate: sc-118235

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., Nathan, D., Reindle, A., Johnson, E.S. and Berger, S.L. 2006. Sumoylation of the yeast Gcn5 protein. *Biochemistry* 45: 1035-1042.
2. Guelman, S., Suganuma, T., Florens, L., Swanson, S.K., Kiesecker, C.L., Kusch, T., Anderson, S., Washburn, M.P., Abmayr, S.M. and Workman, J.L. 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., Suganuma, T., Florens, L., Weake, V., Swanson, S.K., Washburn, M.P., Abmayr, S.M. and Workman, J.L. 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., Germaniuk-Kurowska, A., Dimri, M., Sassack, M.A., Gurumurthy, C.B., Gao, Q., Dimri, G., Band, H. and Band, V. 2007. An essential role of human ADA3 in p53 acetylation. *J. Biol. Chem.* 282: 8812-8820.
5. Barrios, A., Selleck, W., Hnatkovich, B., Kramer, R., Sermwittayawong, D. and Tan, S. 2007. Expression and purification of recombinant yeast ADA2/ADA3/Gcn5 and Piccolo NuA4 histone acetyltransferase complexes. *Methods* 41: 271-277.
6. Grau, B., Popescu, C., Torroja, L., Ortuño-Sahagún, D., Boros, I. and Ferrús, A. 2007. Transcriptional adaptor ADA3 of *Drosophila melanogaster* is required for histone modification, position effect variegation, and transcription. *Mol. Cell. Biol.* 28: 376-385.
7. Germaniuk-Kurowska, A., Nag, A., Zhao, X., Dimri, M., Band, H. and Band, V. 2007. ADA3 requirement for HAT recruitment to estrogen receptors and estrogen-dependent breast cancer cell proliferation. *Cancer Res.* 67: 11789-11797.

CHROMOSOMAL LOCATION

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

PRODUCT

TADA3L (m3): 293T Lysate represents a lysate of mouse TADA3L transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

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.

APPLICATIONS

TADA3L (m3): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive ADTADA3LA3 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.

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.