TADA3L (E-21): sc-130939

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BACKGROUND

ADA3 (transcriptional adapter 3-like, STAF54) is a 432 amino acid protein encoded by the human gene TADA3L. ADA3 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. ADA3 interacts with the E6 gene and is a target of E6-induced degradation. ADA3 binds selectively to the high-risk HPV E6 proteins and immortalization-competent E6 mutants. ADA3 functions as a co-activator for p53-mediated transactivation by stabilizing p53 protein.

REFERENCES

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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.

CHROMOSOMAL LOCATION

Genetic locus: TADA3 (human) mapping to 3p25.3; Tada3 (mouse) mapping to 6 E3.

SOURCE

TADA3L (E-21) is an affinity purified rabbit polyclonal antibody raised against synthetic ADA3 peptide of human origin.

PRODUCT

Each vial contains 50 µg IgG in 500 µl PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

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

APPLICATIONS

TADA3L (E-21) is recommended for detection of TADA3L of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for TADA3L siRNA (h): sc-78466, TADA3L siRNA (m): sc-77411, TADA3L shRNA Plasmid (h): sc-78466-SH, TADA3L shRNA Plasmid (m): sc-77411-SH, TADA3L shRNA (h) Lentiviral Particles: sc-78466-V and TADA3L shRNA (m) Lentiviral Particles: sc-77411-V.
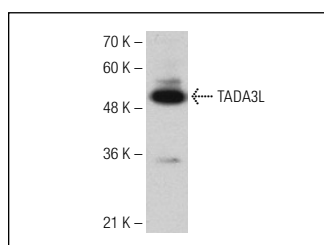
Molecular Weight of TADA3L: 49 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, NIH/3T3 whole cell lysate: sc-2210 or 293T whole cell lysate.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA

TADA3L (E-21): sc-130939. Western blot analysis of human TADA3L transfected 293T whole cell lysate.

PROTOCOLS

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