SANTA CRUZ BIOTECHNOLOGY, INC.

STAF42 (B-11): sc-398787

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

STAF42 (SPT3-associated factor 42), also known as TADA1 (transcriptional adapter 1), ADA1, HFI1 or hADA1, is a 335 amino acid nuclear protein that belongs to the TADA1 family. As a component of the STAGA transcription coactivator-HAT complex, STAF42 is most likely involved in transcriptional regulation. The gene that encodes STAF42 maps to human chromosome 1, which spans 260 million base pairs, contains over 3,000 genes and comprises nearly 8% of the human genome. Chromosome 1 houses a large number of disease-associated genes, including those that are involved in familial adenomatous polyposis, Stickler syndrome, Parkinson's disease, Gaucher disease, schizophrenia and Usher syndrome. Aberrations in chromosome 1 are found in a variety of cancers, including head and neck cancer, malignant melanoma and multiple myeloma.

REFERENCES

1. Eudy, J.D., et al. 1998. Isolation of a gene encoding a novel member of the nuclear receptor superfamily from the critical region of Usher syndrome type IIa at 1q41. Genomics 50: 382-384.
2. Martinez, E., et al. 2001. Human STAGA complex is a chromatin-acetylating transcription coactivator that interacts with pre-mRNA splicing and DNA damage-binding factors *in vivo*. Mol. Cell. Biol. 21: 6782-6795.
3. Tayebi, N., et al. 2001. Gaucher disease and parkinsonism: a phenotypic and genotypic characterization. Mol. Genet. Metab. 73: 313-321.
4. Plasilova, M., et al. 2004. Exclusion of an extracolonic disease modifier locus on chromosome 1p33-36 in a large Swiss familial adenomatous polyposis kindred. Eur. J. Hum. Genet. 12: 365-371.
5. Betarbet, R., et al. 2008. Fas-associated factor 1 and Parkinson's disease. Neurobiol. Dis. 31: 309-315.

CHROMOSOMAL LOCATION

Genetic locus: TADA1 (human) mapping to 1q24.1; Tada1 (mouse) mapping to 1 H2.3.

SOURCE

STAF42 (B-11) is a mouse monoclonal antibody raised against amino acids 136-248 mapping within an internal region of STAF42 of human origin.

PRODUCT

Each vial contains 200 µg IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STAF42 (B-11) is available conjugated to agarose (sc-398787 AC), 500 µg/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-398787 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-398787 PE), fluorescein (sc-398787 FITC), Alexa Fluor® 488 (sc-398787 AF488), Alexa Fluor® 546 (sc-398787 AF546), Alexa Fluor® 594 (sc-398787 AF594) or Alexa Fluor® 647 (sc-398787 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-398787 AF680) or Alexa Fluor® 790 (sc-398787 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA

APPLICATIONS

STAF42 (B-11) is recommended for detection of STAF42 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for STAF42 siRNA (h): sc-78833, STAF42 siRNA (m): sc-153874, STAF42 shRNA Plasmid (h): sc-78833-SH, STAF42 shRNA Plasmid (m): sc-153874-SH, STAF42 shRNA (h) Lentiviral Particles: sc-78833-V and STAF42 shRNA (m) Lentiviral Particles: sc-153874-V.

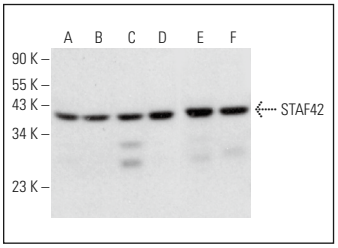
Molecular Weight of STAF42: 37 kDa.

Positive Controls: SK-N-MC cell lysate: sc-2237, T98G cell lysate: sc-2294 or RT-4 whole cell lysate: sc-364257.

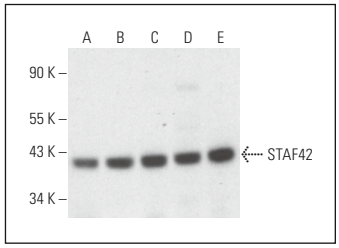
RECOMMENDED SUPPORT REAGENTS

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. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



STAF42 (B-11): sc-398787. Western blot analysis of STAF42 expression in HeLa (**A**), A549 (**B**), WEHI-231 (**C**), F9 (**D**), PC-12 (**E**) and MM-142 (**F**) whole cell lysates.



STAF42 (B-11): sc-398787. Western blot analysis of STAF42 expression in SK-N-MC (**A**), T98G (**B**), HeLa (**C**), RT-4 (**D**) and U-251-MG (**E**) whole cell lysates.

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.

PROTOCOLS

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