SANTA CRUZ BIOTECHNOLOGY, INC.

SNFT (N-15): sc-162247



BACKGROUND

SNFT, also known as BATF3 (basic leucine zipper transcription factor, ATFlike 3), JUNDM1 or JDP1, is a 127 amino acid protein that localizes to the nucleus and contains one bZIP domain. Interacting with c-Jun, SNFT functions as a negative regulator of AP-1-mediated transcription, specifically by heterodimerizing with c-Jun and binding to DNA response elements. The gene encoding SNFT 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. lacobelli, M., et al. 2000. Repression of IL-2 promoter activity by the novel basic leucine zipper p21SNFT protein. J. Immunol. 165: 860-868.
- Bower, K.E., et al. 2002. Correlation of transcriptional repression by p21 (SNFT) with changes in DNA.NF-AT complex interactions. J. Biol. Chem. 277: 34967-34977.
- Newman, J.R., et al. 2003. Comprehensive identification of human bZIP interactions with coiled-coil arrays. Science 300: 2097-2101.
- Bower, K.E., et al. 2004. Transcriptional repression of MMP-1 by p21SNFT and reduced *in vitro* invasiveness of hepatocarcinoma cells. Oncogene 23: 8805-8814.
- 5. Hildner, K., et al. 2008. Batf3 deficiency reveals a critical role for CD8 α ⁺ dendritic cells in cytotoxic T cell immunity. Science 322: 1097-1100.
- 6. Online Mendelian Inheritance in Man, OMIM™. 2008. Johns Hopkins University, Baltimore, MD. MIM Number: 612470. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
- 7. Schraml, B.U., et al. 2009. The AP-1 transcription factor Batf controls T(H)17 differentiation. Nature 460: 405-409.

CHROMOSOMAL LOCATION

Genetic locus: BATF3 (human) mapping to 1q32.3.

SOURCE

SNFT (N-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of SNFT of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-162247 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-162247 X, 200 $\mu g/0.1$ ml.

APPLICATIONS

SNFT (N-15) is recommended for detection of SNFT of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

SNFT (N-15) is also recommended for detection of SNFT in additional species, including porcine.

Suitable for use as control antibody for SNFT siRNA (h): sc-88553, SNFT shRNA Plasmid (h): sc-88553-SH and SNFT shRNA (h) Lentiviral Particles: sc-88553-V.

 SNFT (N-15) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

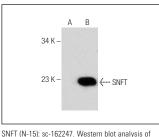
Molecular Weight of SNFT: 14 kDa.

Positive Controls: SNFT (h): 293T Lysate: sc-373308.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



SNF1 (N-15): Sc-162247. Western biot analysis of SNFT expression in non-transfected: sc-117752 (**A**) and human SNFT transfected: sc-373308 (**B**) 293T 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.