SANTA CRUZ BIOTECHNOLOGY, INC.

ZNF169 (C-16): sc-324527



BACKGROUND

Zinc-finger proteins contain DNA-binding domains and have a wide variety of functions, most of which encompass some form of transcriptional activation or repression. The majority of zinc-finger proteins contain a Krüppel-type DNA binding domain and a KRAB domain, which is thought to interact with KAP1, thereby recruiting histone modifying proteins. As a member of the Krüppel C_2H_2 -type zinc-finger protein family, ZNF169 (zinc finger protein 169) is a 603 amino acid nuclear protein that contains one KRAB domain and 13 C_2H_2 -type zinc fingers. ZNF169 is highly expressed in kidney and weakly expressed in spleen, liver, small intestine and heart, where it functions as a transcription regulator. The gene encoding ZNF169 maps to a region of human chromosome 9q22, which has been associated with many human diseases such as colon cancer, migraine auras, basal cell carcinoma, Gorlin syndrome and extraskeletal myxoid chondrosarcoma.

REFERENCES

- Levanat, S., et al. 1997. Pulsed-field gel electrophoresis and FISH mapping of chromosome 9q22: placement of a novel zinc finger gene within the NBCCS and ESS1 region. Cytogenet. Cell Genet. 76: 208-213.
- 2. Chidambaram, A., et al. 1997. Characterization of a YAC contig containing the NBCCS locus and a novel Kruppel-type zinc finger sequence on chromosome segment 9q22.3. Genes Chromosomes Cancer 18: 212-218.
- Hisaoka, M. and Hashimoto, H. 2005. Extraskeletal myxoid chondrosarcoma: updated clinicopathological and molecular genetic characteristics. Pathol. Int. 55: 453-463.
- Bose, S., et al. 2006. The elusive multiple self-healing squamous epithelioma (MSSE) gene: further mapping, analysis of candidates, and loss of heterozygosity. Oncogene 25: 806-812.
- 5. Online Mendelian Inheritance in Man, OMIM™. 2008. Johns Hopkins University, Baltimore, MD. MIM Number: 603404. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
- Mosterd, K., et al. 2009. Destructive basal cell carcinoma in a patient with basal cell nevus syndrome and an interstitial deletion of chromosome 9q22. Dermatol. Surg. 35: 2051-2053.
- 7. Musani, V., et al. 2009. Gorlin syndrome patient with large deletion in 9q22.32-q22.33 detected by quantitative multiplex fluorescent PCR. Dermatology 219: 111-118.
- 8. Gray-McGuire, C., et al. 2010. Confirmation of linkage to and localization of familial colon cancer risk haplotype on chromosome 9q22. Cancer Res. 70: 5409-5418.
- 9. Tikka-Kleemola, P., et al. 2010. A visual migraine aura locus maps to 9q21-q22. Neurology 74: 1171-1177.

CHROMOSOMAL LOCATION

Genetic locus: ZNF169 (human) mapping to 9q22.32.

RESEARCH USE

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

SOURCE

ZNF169 (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of ZNF169 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-324527 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ZNF169 (C-16) is recommended for detection of ZNF169 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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); non cross-reactive with other zinc finger proteins.

ZNF169 (C-16) is also recommended for detection of ZNF169 in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for ZNF169 siRNA (h): sc-92480, ZNF169 shRNA Plasmid (h): sc-92480-SH and ZNF169 shRNA (h) Lentiviral Particles: sc-92480-V.

Molecular Weight of ZNF169: 68 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

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) Immunofluo-rescence: 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.

STORAGE

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

PROTOCOLS

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