SANTA CRUZ BIOTECHNOLOGY, INC.

ZNF169 (V-24): sc-134174

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

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 krueppel 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 thirteen 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

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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.
3. Hisaoka, M. and Hashimoto, H. 2005. Extraskeletal myxoid chondrosarcoma: updated clinicopathological and molecular genetic characteristics. Pathol. Int. 55: 453-463.
4. 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/
6. 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.

STORAGE

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

SOURCE

ZNF169 (V-24) is an affinity purified rabbit polyclonal antibody raised against synthetic ZNF169 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.

APPLICATIONS

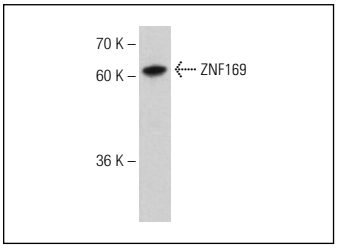
ZNF169 (V-24) is recommended for detection of ZNF169 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (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 ZNF169 siRNA (h): sc-92480, ZNF169 shRNA Plasmid (h): sc-92480-SH and ZNF169 shRNA (h) Lentiviral Particles: sc-92480-V.

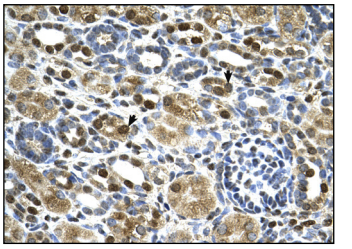
Molecular Weight of ZNF169: 68 kDa.

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

DATA



ZNF169 (V-24): sc-134174. Western blot analysis of ZNF169 expression in Hep G2 whole cell lysate.



ZNF169 (V-24): sc-134174. Immunoperoxidase staining of formalin-fixed, paraffin-embedded human kidney tissue showing nuclear and cytoplasmic localization.

RESEARCH USE

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

PROTOCOLS

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