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ZSCAN21 (h): 293T Lysate: sc-116016

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. ZSCAN21, also called ZNF38, Zipro1 or NY-REN-21, is the human homolog of the mouse Zscan21 protein and is a member of the Krüppel C₂H₂-type zinc-finger family of transcriptional regulators. Found in proliferating cells, ZSCAN21 is thought to be associated with gametogenesis in females and with meiosis in males. ZSCAN21 has a SCAN domain at the N-terminus and exhibits transcriptional activity by forming either a homodimer or a heterodimer with the protein SCAND1.

REFERENCES

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2. Yang, X.W., Wynder, C., Doughty, M.L. and Heintz, N. 1999. BAC-mediated gene-dosage analysis reveals a role for Zipro1 (Ru49/ZFP38) in progenitor cell proliferation in cerebellum and skin. *Nat. Genet.* 22: 327-335.
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CHROMOSOMAL LOCATION

Genetic locus: ZSCAN21 (human) mapping to 7q22.1.

PRODUCT

ZSCAN21 (h): 293T Lysate represents a lysate of human ZSCAN21 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

ZSCAN21 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive ZSCAN21 antibodies. Recommended use: 10-20 µl per lane.

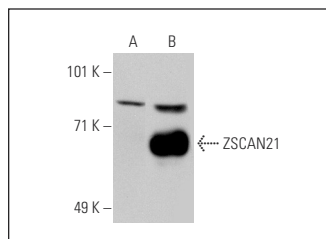
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

ZSCAN21 (3418F1a): sc-81142 is recommended as a positive control antibody for Western Blot analysis of enhanced human ZSCAN21 expression in ZSCAN21 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

DATA



ZSCAN21 (3418F1a): sc-81142. Western blot analysis of ZSCAN21 expression in non-transfected: sc-117752 (A) and human ZSCAN21 transfected: sc-116016 (B) 293T whole cell lysates.

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.