

ZSCAN21 (H-68): sc-98315

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.
3. Carneiro, F.R., Silva, T.C., Alves, A.C., Haline-Vaz, T., Gozzo, F.C. and Zanchin, N.I. 2006. Spectroscopic characterization of the tumor antigen NY-REN-21 and identification of heterodimer formation with SCAND1. *Biochem. Biophys. Res. Commun.* 343: 260-268.
4. Saydam, O., Steiner, F., Vogt, B. and Schwyzer, M. 2006. Host cell targets of immediate-early protein BICP22 of bovine herpesvirus 1. *Vet. Microbiol.* 113: 185-192.
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CHROMOSOMAL LOCATION

Genetic locus: ZSCAN21 (human) mapping to 7q22.1; Zscan21 (mouse) mapping to 5 G2.

SOURCE

ZSCAN21 (H-68) is a rabbit polyclonal antibody raised against amino acids 318-385 mapping within an internal region of ZSCAN21 of human origin.

PRODUCT

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

STORAGE

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

APPLICATIONS

ZSCAN21 (H-68) is recommended for detection of ZSCAN21 of mouse, rat and 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

ZSCAN21 (H-68) is also recommended for detection of ZSCAN21 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for ZSCAN21 siRNA (h): sc-89895, ZSCAN21 siRNA (m): sc-106715, ZSCAN21 shRNA Plasmid (h): sc-89895-SH, ZSCAN21 shRNA Plasmid (m): sc-106715-SH, ZSCAN21 shRNA (h) Lentiviral Particles: sc-89895-V and ZSCAN21 shRNA (m) Lentiviral Particles: sc-106715-V.

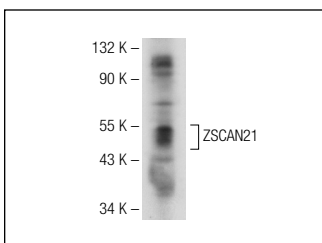
Molecular Weight of ZSCAN21: 54 kDa.

Positive Controls: Hep G2 nuclear extract: sc-364819.

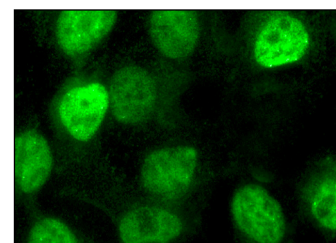
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



ZSCAN21 (H-68): sc-98315. Western blot analysis of ZSCAN21 expression in Hep G2 nuclear extract.



ZSCAN21 (H-68): sc-98315. Immunofluorescence staining of formalin-fixed Hep G2 cells showing nuclear 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.