SANTA CRUZ BIOTECHNOLOGY, INC.

ZNF271 (M-100): sc-98387



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, ZNF271 (zinc finger protein 271), also known as zinc finger protein 7, HZF7 and Epstein-Barr virus-induced zinc finger protein, is a 655 amino acid nuclear protein that contains 19 C_2H_2 -type zinc fingers. ZNF271 is expressed in pancreatic islet cells, T-cell lines, thryoid and thymocytes. Interestingly, ZNF271 plays a significant role in Epstein-Barr virus transformation. The gene encoding ZNF271 maps to a chromosomal region that is frequently associated with hematopoietic malignancies. There are two isoforms of ZNF271 that are produced as a result of alternative splicing events.

REFERENCES

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- Abrink, M., et al. 1995. Isolation of cDNA clones for 42 different Krüppelrelated zinc finger proteins expressed in the human monoblast cell line U-937. DNA Cell Biol. 14: 125-136.
- 4. Tune, C.E., et al. 2002. Sustained expression of the novel EBV-induced zinc finger gene, ZNFEB, is critical for the transition of B lymphocyte activation to oncogenic growth transformation. J. Immunol. 168: 680-688.
- 5. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 604754. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
- Wali, A., et al. 2007. Mapping of a gene for alopecia with mental retardation syndrome (APMR3) on chromosome 18q11.2-q12.2. Ann. Hum. Genet. 5: 570-577.
- 7. Niller, H.H., et al. 2008. Regulation and dysregulation of Epstein-Barr virus latency: implications for the development of autoimmune diseases. Autoimmunity 41: 298-328.

CHROMOSOMAL LOCATION

Genetic locus: Zfp35 (mouse) mapping to 18 A2.

SOURCE

ZNF271 (M-100) is a rabbit polyclonal antibody raised against amino acids 1-100 mapping at the N-terminus of ZNF271 of mouse origin.

STORAGE

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

PRODUCT

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

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-98387 X, 200 $\mu g/0.1$ ml.

APPLICATIONS

ZNF271 (M-100) is recommended for detection of ZNF271 of mouse 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).

Suitable for use as control antibody for ZNF271 siRNA (m): sc-76975, ZNF271 shRNA Plasmid (m): sc-76975-SH and ZNF271 shRNA (m) Lentiviral Particles: sc-76975-V.

ZNF271 (M-100) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

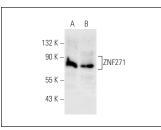
Molecular Weight of ZNF271 isoforms: 76/48 kDa.

Positive Controls: WEHI-231 whole cell lysate: sc-2213 or BYDP whole cell lysate: sc-364368.

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



ZNF271 (M-100): sc-98387. Western blot analysis of ZNF271 expression in BYDP ($\bf A$) and WEHI-231 ($\bf B$) whole cell lysates.

RESEARCH USE

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