SANTA CRUZ BIOTECHNOLOGY, INC.

ZNF271 (W-24): sc-134179



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.
- 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.
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- 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. 71: 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: ZNF271 (human) mapping to 18q12.1.

SOURCE

ZNF271 (W-24) is an affinity purified rabbit polyclonal antibody raised against synthetic ZNF271 peptide of human origin.

PRODUCT

Each vial contains 50 μg lgG in 500 μl PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

ZNF271 (W-24) is recommended for detection of ZNF271 of human 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for ZNF271 siRNA (h): sc-76974, ZNF271 shRNA Plasmid (h): sc-76974-SH and shRNA (h) Lentiviral Particles: sc-76974-V.

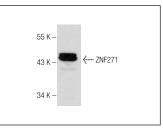
Molecular Weight of ZNF271 isoforms: 76/48 kDa.

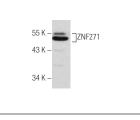
Positive Controls: Hep G2 cell lysate: sc-2227 or human skeletal muscle extract: sc-363776.

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).

DATA





ZNF271 (W-24): sc-134179. Western blot analysis of ZNF271 expression in Hep G2 whole cell lysate.

ZNF271 (W-24): sc-134179. Western blot analysis of ZNF271 expression in human skeletal muscle tissue extract

STORAGE

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

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.