

ZNF31 (h): 293 Lysate: sc-111155

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. ZNF31 (zinc finger protein 31), also known as ZSCAN20, KOX29, ZFP-31 or ZNF360, is a 977 amino acid member of the Krüppel C₂H₂-type zinc-finger protein family. Localized to the nucleus, ZNF31 contains one SCAN domain and ten C₂H₂-type zinc fingers through which it is thought to convey transcriptional regulation activity.

REFERENCES

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- Rousseau-Merck, M.F., Hillion, J., Jonveaux, P., Couillin, P., Seité, P., Thiesen, H.J. and Berger, R. 1994. Chromosomal localization of 9 KOX zinc finger genes: physical linkages suggest clustering of KOX genes on chromosomes 12, 16, and 19. *Hum. Genet.* 92: 583-587.
- Williams, A.J., Blacklow, S.C. and Collins, T. 1999. The zinc finger-associated SCAN box is a conserved oligomerization domain. *Mol. Cell. Biol.* 19: 8526-8535.
- Rousseau-Merck, M.F., Koczan, D., Legrand, I., Möller, S., Autran, S. and Thiesen, H.J. 2003. The KOX zinc finger genes: genome wide mapping of 3.ZNF PAC clones with zinc finger gene clusters predominantly in 23 chromosomal loci are confirmed by human sequences annotated in Ensembl. *Cytogenet. Genome Res.* 98: 147-153.
- Englbrecht, C.C., Schoof, H. and Böhm, S. 2004. Conservation, diversification and expansion of C₂H₂ zinc finger proteins in the *Arabidopsis thaliana* genome. *BMC Genomics* 5: 39-39.

CHROMOSOMAL LOCATION

Genetic locus: ZSCAN20 (human) mapping to 1p35.1.

PRODUCT

ZNF31 (h): 293 Lysate represents a lysate of human ZNF31 transfected 293 cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

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.

APPLICATIONS

ZNF31 (h): 293 Lysate is suitable as a Western Blotting positive control for human reactive ZNF31 antibodies. Recommended use: 10-20 µl per lane.

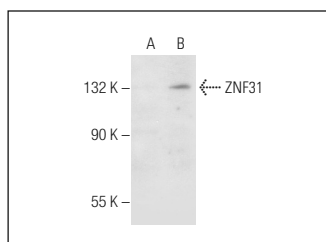
Control 293 Lysate: sc-110760 is available as a Western Blotting negative control lysate derived from non-transfected 293 cells.

ZNF31 (MM-9): sc-101084 is recommended as a positive control antibody for Western Blot analysis of enhanced human ZNF31 expression in ZNF31 transfected 293 cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended:
1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



ZNF31 (MM-9): sc-101084. Western blot analysis of ZNF31 expression in non-transfected: sc-110760 (A) and human ZNF31 transfected: sc-111155 (B) 293 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.