

ZNF181 (16-Z): sc-101076

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. ZNF181 (zinc finger protein 181), also known as HHZ181 is a 571 amino acid protein that contains one KRAB domain and 11 C₂H₂-type zinc fingers. Localized to the nucleus, ZNF181 is one of several members of the Krüppel C₂H₂-type zinc-finger family and is thought to be involved in transcriptional regulation. Two isoforms of ZNF181 exist due to alternative splicing events.

REFERENCES

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3. Sun, Y., Gou, D.M., Liu, H., Peng, X. and Li, W.X. 2003. The KRAB domain of zinc finger gene ZNF268: a potential transcriptional repressor. *IUBMB Life* 55: 127-131.
4. Nakamura, M., Runko, A.P. and Sagerström, C.G. 2004. A novel subfamily of zinc finger genes involved in embryonic development. *J. Cell. Biochem.* 93: 887-895.
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6. O'Geen, H., Squazzo, S.L., Iyengar, S., Blahnik, K., Rinn, J.L., Chang, H.Y., Green, R. and Farnham, P.J. 2007. Genome-wide analysis of KAP1 binding suggests autoregulation of KRAB-ZNFs. *PLoS Genet.* 3: e89.

CHROMOSOMAL LOCATION

Genetic locus: ZNF181 (human) mapping to 19q13.11.

SOURCE

ZNF181 (16-Z) is a mouse monoclonal antibody raised against recombinant ZNF181 of human origin.

PRODUCT

Each vial contains 50 µg IgG_{2a} kappa light chain in 0.5 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.

RESEARCH USE

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

APPLICATIONS

ZNF181 (16-Z) is recommended for detection of ZNF181 of 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for ZNF181 siRNA (h): sc-97819, ZNF181 shRNA Plasmid (h): sc-97819-SH and ZNF181 shRNA (h) Lentiviral Particles: sc-97819-V.

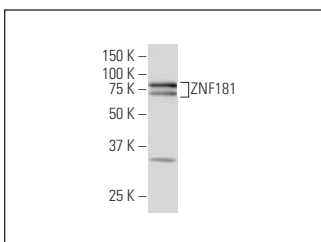
Molecular Weight of ZNF181: 66 kDa.

Positive Controls: A-431 whole cell lysate: sc-2201.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BPHRP: sc-516102 or m-IgGκ BPHRP (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. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

DATA



ZNF181 (16-Z): sc-101076. Western blot analysis of ZNF181 expression in A-431 whole cell lysate.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.