SANTA CRUZ BIOTECHNOLOGY, INC.

ZNF193 (h): 293T Lysate: sc-178159

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. ZNF193 (zinc finger protein 193), also known as cell proliferation-inducing gene 12 protein, PRD51 or ZSCAN9 (zinc finger and SCAN domain-containing protein 9), is a 394 amino acid nuclear protein implicated in transcriptional regulation. A member of the Krüppel C_2H_2-type zinc-finger protein family, ZNF193 contains one SCAN box domain and five C_2H_2-type zinc fingers. The gene encoding ZNF193 maps to human chromosome 6p22.1.

REFERENCES

1. Bray, P., et al. 1991. Characterization and mapping of human genes encoding zinc finger proteins. Proc. Natl. Acad. Sci. USA 88: 9563-9567.
2. Lichter, P., et al. 1992. Clustering of C_2H_2 zinc finger motif sequences within telomeric and fragile site regions of human chromosomes. Genomics 13: 999-1007.
3. Lee, P.L., et al. 1997. Three genes encoding zinc finger proteins on human chromosome 6p21.3: members of a new subclass of the Krüppel gene family containing the conserved SCAN box domain. Genomics 43: 191-201.
4. Williams, A.J., et al. 1999. The zinc finger-associated SCAN box is a conserved oligomerization domain. Mol. Cell. Biol. 19: 8526-8535.
5. Huntley, S., et al. 2006. A comprehensive catalog of human KRAB-associated zinc finger genes: insights into the evolutionary history of a large family of transcriptional repressors. Genome Res. 16: 669-677.
6. Filion, G.J., et al. 2006. A family of human zinc finger proteins that bind methylated DNA and repress transcription. Mol. Cell. Biol. 26: 169-181.
7. Tian, C.Y., et al. 2006. Progress in the study of KRAB zinc finger protein. Yi Chuan 28: 1451-1456.

CHROMOSOMAL LOCATION

Genetic locus: ZSCAN9 (human) mapping to 6p22.1.

PRODUCT

ZNF193 (h): 293T Lysate represents a lysate of human ZNF193 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

ZNF193 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive ZNF193 antibodies. Recommended use: 10-20 µl per lane.

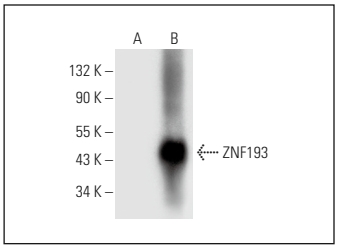
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

ZNF193 (G-8): sc-398688 is recommended as a positive control antibody for Western Blot analysis of enhanced human ZNF193 expression in ZNF193 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

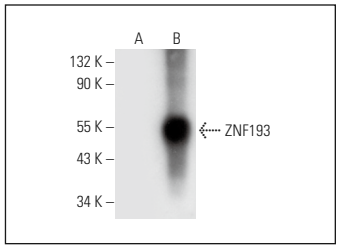
RECOMMENDED SUPPORT REAGENTS

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



ZNF193 (G-8): sc-398688. Western blot analysis of ZNF193 expression in non-transfected: sc-117752 (**A**) and human ZNF193 transfected: sc-178159 (**B**) 293T whole cell lysates.



ZNF193 (F-8): sc-398689. Western blot analysis of ZNF193 expression in non-transfected: sc-117752 (**A**) and human ZNF193 transfected: sc-178159 (**B**) 293T whole cell lysates.

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.

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.