SANTA CRUZ BIOTECHNOLOGY, INC.

ZNF193 (G-8): sc-398688

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

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.

SOURCE

ZNF193 (G-8) is a mouse monoclonal antibody raised against amino acids 191-256 mapping within an internal region of ZNF193 of human origin.

PRODUCT

Each vial contains 200 µg IgG_{2a} kappa light chain in 1.0 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

ZNF193 (G-8) is recommended for detection of ZNF193 of human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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 ZNF193 siRNA (h): sc-95350, ZNF193 shRNA Plasmid (h): sc-95350-SH and ZNF193 shRNA (h) Lentiviral Particles: sc-95350-V.

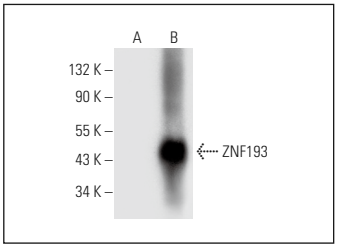
Molecular Weight of ZNF193: 46 kDa.

Positive Controls: ZNF193 (h): 293T Lysate: sc-178159.

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. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

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.

PROTOCOLS

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