

ZNF193 (F-8): sc-398689



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 C₂H₂-type zinc-finger protein family, ZNF193 contains one SCAN box domain and five C₂H₂-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 C₂H₂ 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.

CHROMOSOMAL LOCATION

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

SOURCE

ZNF193 (F-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 IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

ZNF193 (F-8) is available conjugated to agarose (sc-398689 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-398689 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-398689 PE), fluorescein (sc-398689 FITC), Alexa Fluor® 488 (sc-398689 AF488), Alexa Fluor® 546 (sc-398689 AF546), Alexa Fluor® 594 (sc-398689 AF594) or Alexa Fluor® 647 (sc-398689 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-398689 AF680) or Alexa Fluor® 790 (sc-398689 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS

ZNF193 (F-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.

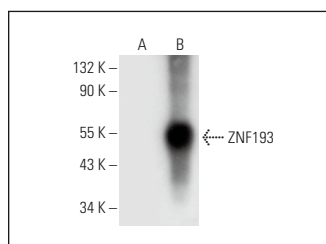
Molecular Weight of ZNF193: 46 kDa.

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 (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 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 for detailed protocols and support products.