SANTA CRUZ BIOTECHNOLOGY, INC.

ZNF784 (B-8): sc-514381

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. ZNF784 (zinc finger protein 784) is a 323 amino acid protein that belongs to the Krüppel C_2H_2-type zinc-finger protein family and contains six C_2H_2-type zinc fingers. Localizing to nucleus, ZNF784 is thought to play a role in transcriptional regulation and is encoded by a gene that localizes to human chromosome 19q13.42.

REFERENCES

1. Witzgall, R., et al. 1994. The Krüppel-associated box-A (KRAB-A) domain of zinc finger proteins mediates transcriptional repression. Proc. Natl. Acad. Sci. USA 91: 4514-4518.
2. Mark, C., et al. 1999. Comparative analysis of KRAB zinc finger proteins in rodents and man: evidence for several evolutionarily distinct subfamilies of KRAB zinc finger genes. DNA Cell Biol. 18: 381-396.
3. Williams, A.J., et al. 1999. The zinc finger-associated SCAN box is a conserved oligomerization domain. Mol. Cell. Biol. 19: 8526-8535.
4. Peng, H., et al. 2000. Biochemical analysis of the Krüppel-associated box (KRAB) transcriptional repression domain. J. Biol. Chem. 275: 18000-18010.
5. Urrutia, R. 2003. KRAB-containing zinc-finger repressor proteins. Genome Biol. 4: 231.
6. 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.

CHROMOSOMAL LOCATION

Genetic locus: ZNF784 (human) mapping to 19q13.42; Zfp784 (mouse) mapping to 7 A1.

SOURCE

ZNF784 (B-8) is a mouse monoclonal antibody raised against amino acids 41-89 mapping near the N-terminus of ZNF784 of human origin.

PRODUCT

Each vial contains 200 µg IgG_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

ZNF784 (B-8) is available conjugated to agarose (sc-514381 AC), 500 µg/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-514381 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-514381 PE), fluorescein (sc-514381 FITC), Alexa Fluor® 488 (sc-514381 AF488), Alexa Fluor® 546 (sc-514381 AF546), Alexa Fluor® 594 (sc-514381 AF594) or Alexa Fluor® 647 (sc-514381 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-514381 AF680) or Alexa Fluor® 790 (sc-514381 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

ZNF784 (B-8) is recommended for detection of ZNF784 of mouse, rat and 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 ZNF784 siRNA (h): sc-97166, ZNF784 siRNA (m): sc-155797, ZNF784 shRNA Plasmid (h): sc-97166-SH, ZNF784 shRNA Plasmid (m): sc-155797-SH, ZNF784 shRNA (h) Lentiviral Particles: sc-97166-V and ZNF784 shRNA (m) Lentiviral Particles: sc-155797-V.

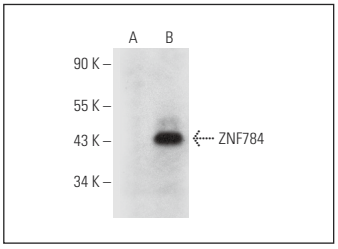
Molecular Weight of ZNF784: 34 kDa.

Positive Controls: ZNF784 (h): 293T Lysate: sc-117308.

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



ZNF784 (B-8): sc-514381. Western blot analysis of ZNF784 expression in non-transfected: sc-117752 (**A**) and human ZNF784 transfected: sc-117308 (**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.