SANTA CRUZ BIOTECHNOLOGY, INC.

ZNF215 (6L1): sc-135611

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. As a member of the Krüppel C_2H_2-type zinc-finger protein family, ZNF215 (zinc finger protein 215), also known as BAZ2 (BWSCR2-associated zinc finger protein 2) or ZKSCAN11 (zinc finger protein with KRAB and SCAN domains 11), is a 517 amino acid nuclear protein that contains four C_2H_2-type zinc fingers, one KRAB domain and one SCAN box domain. ZNF215 is predominantly expressed in testis and defects in the gene is associated with male factor subfertility.

REFERENCES

1. Payre, F. and Vincent, A. 1988. Finger proteins and DNA-specific recognition: distinct patterns of conserved amino acids suggest different evolutionary modes. FEBS Lett. 234: 245-250.
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3. Rosenfeld, R. and Margalit, H. 1993. Zinc fingers: conserved properties that can distinguish between spurious and actual DNA-binding motifs. J. Biomol. Struct. Dyn. 11: 557-570.
4. Alders, M., Ryan, A., Hodges, M., Bliek, J., Feinberg, A.P., Privitera, O., Westerveld, A., Little, P.F. and Mannens, M. 2000. Disruption of a novel imprinted zinc-finger gene, ZNF215, in Beckwith-Wiedemann syndrome. Am. J. Hum. Genet. 66: 1473-1484.
5. Laity, J.H., Lee, B.M. and Wright, P.E. 2001. Zinc finger proteins: new insights into structural and functional diversity. Curr. Opin. Struct. Biol. 11: 39-46.
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CHROMOSOMAL LOCATION

Genetic locus: ZNF215 (human) mapping to 11p15.4.

SOURCE

ZNF215 (6L1) is a mouse monoclonal antibody raised against recombinant ZNF215 protein of human origin.

PRODUCT

Each vial contains 100 µg IgG_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

RESEARCH USE

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

APPLICATIONS

ZNF215 (6L1) is recommended for detection of ZNF215 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 ZNF215 siRNA (h): sc-96379, ZNF215 shRNA Plasmid (h): sc-96379-SH and ZNF215 shRNA (h) Lentiviral Particles: sc-96379-V.

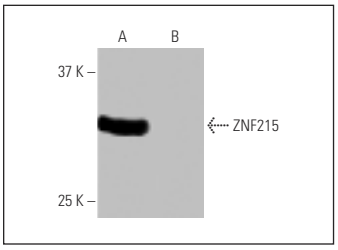
Molecular Weight of ZNF215: 60 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204 or human ZNF215 transfected 293T whole cell lysate.

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).

DATA



ZNF215 (6L1): sc-135611. Western blot analysis of ZNF215 expression in human ZNF215 transfected (**A**) and non-transfected (**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.

PROTOCOLS

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