SANTA CRUZ BIOTECHNOLOGY, INC.

ZFP96 (G-11): sc-514547

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. Belonging to the Krüppel C_2H_2-type zinc-finger protein family, ZFP96 (zinc finger protein 96 homolog), also known as ZSCAN12 (zinc finger and SCAN domain-containing protein 12) and zinc finger protein 305, is a 604 amino acid nuclear protein that contains one SCAN box domain and 11 C_2H_2-type zinc fingers. ZFP96 is upregulated by 8-fold from day 13 of pregnancy to day 1 post-partum, suggesting that ZFP96 functions as a transcription factor by switching off pro-survival genes and/or upregulating pro-apoptotic genes of the corpus luteum.

REFERENCES

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3. Klug, A. 1999. Zinc finger peptides for the regulation of gene expression. J. Mol. Biol. 293: 215-218.
4. Weissig, H., et al. 2003. Three novel spermatogenesis-specific zinc finger genes. FEBS Lett. 547: 61-68.
5. Mungall, A.J., et al. 2005. Cloning and characterization of a novel zinc finger protein (rZFP96) in the rat corpus luteum. Biochim. Biophys. Acta 1732: 69-75.
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8. Hall, T.M. 2005. Multiple modes of RNA recognition by zinc finger proteins. Curr. Opin. Struct. Biol. 15: 367-373.
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CHROMOSOMAL LOCATION

Genetic locus: Zscan12 (mouse) mapping to 13 A3.1.

SOURCE

ZFP96 (G-11) is a mouse monoclonal antibody raised against amino acids 194-272 mapping within an internal region of ZFP96 of mouse 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.

APPLICATIONS

ZFP96 (G-11) is recommended for detection of ZFP96 of mouse 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 ZSCAN12 siRNA (m): sc-155832, ZSCAN12 shRNA Plasmid (m): sc-155832-SH and ZSCAN12 shRNA (m) Lentiviral Particles: sc-155832-V.

Molecular Weight of human ZFP96: 70 kDa.

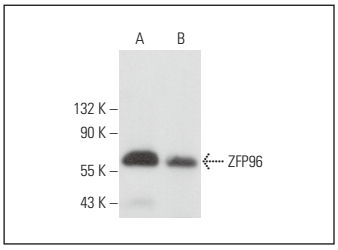
Molecular Weight of mouse ZFP96: 57 kDa.

Positive Controls: F9 cell lysate: sc-2245 or EOC 20 whole cell lysate: sc-364187.

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



ZFP96 (G-11): sc-514547. Western blot analysis of ZFP96 expression in F9 (**A**) and EOC 20 (**B**) 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.