

DZIP1 (C-7): sc-515454

BACKGROUND

DZIP1 (DAZ interacting protein 1) is also known as DZIP or DZIP2 and is a 867 amino acid protein which is expressed as three isoforms, designated DZIPb, DZIPt1 and DZIPt2. DZIP1 is localized to testis, oocytes, ovary and fetal brain, as well as in embryonic stem cells and germ cells. In testis, DZIP1 is localized to the nucleus and also shows some cytoplasmic distribution in spermatogonia. DZIP1 belongs to the C₂H₂-type zinc-finger protein family, and, characteristic of the C₂H₂-type zinc-finger protein family, DZIP1 contains one C₂H₂-type zinc-finger region through which it is thought to interact with DAZ, an interaction that promotes spermiogenesis. DZIP1 expression is not found in those afflicted with Sertoli cell-only syndrome (characterized by the absence of germ cells in the testis), suggesting that the lack of DZIP1 may be involved in the pathogenesis of Sertoli cell-only syndrome-induced male sterility.

REFERENCES

1. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 608671. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
2. Sekimizu, K., Nishioka, N., Sasaki, H., Takeda, H., Karlstrom, R.O. and Kawakami, A. 2004. The zebrafish iguana locus encodes DZIP1, a novel zinc-finger protein required for proper regulation of hedgehog signaling. *Development* 131: 2521-2532.
3. Wolff, C., Roy, S., Lewis, K.E., Schauerte, H., Joerg-Rauch, G., Kirn, A., Weiler, C., Geisler, R., Haffter, P. and Ingham, P.W. 2004. Iguana encodes a novel zinc-finger protein with coiled-coil domains essential for hedgehog signal transduction in the zebrafish embryo. *Genes Dev.* 18: 1565-1576.

CHROMOSOMAL LOCATION

Genetic locus: DZIP1 (human) mapping to 13q32.1; Dzip1 (mouse) mapping to 14 E4.

SOURCE

DZIP1 (C-7) is a mouse monoclonal antibody raised against amino acids 39-90 mapping near the N-terminus of DZIP1 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.

DZIP1 (C-7) is available conjugated to agarose (sc-515454 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-515454 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-515454 PE), fluorescein (sc-515454 FITC), Alexa Fluor® 488 (sc-515454 AF488), Alexa Fluor® 546 (sc-515454 AF546), Alexa Fluor® 594 (sc-515454 AF594) or Alexa Fluor® 647 (sc-515454 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-515454 AF680) or Alexa Fluor® 790 (sc-515454 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

RESEARCH USE

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

APPLICATIONS

DZIP1 (C-7) is recommended for detection of DZIP1 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 DZIP1 siRNA (h): sc-105317, DZIP1 shRNA Plasmid (h): sc-105317-SH and DZIP1 shRNA (h) Lentiviral Particles: sc-105317-V.

Molecular Weight of DZIP1: 96 kDa.

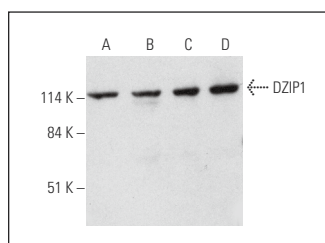
Positive Controls: HeLa whole cell lysate: sc-2200, ES-2 cell lysate: sc-24674 or PC-3 cell lysate: sc-2220.

RECOMMENDED SUPPORT REAGENTS

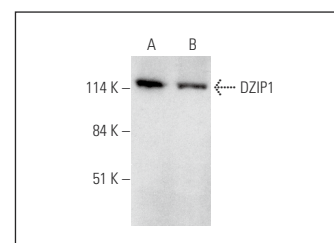
To ensure optimal results, the following support reagents are recommended:

- 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



DZIP1 (C-7): sc-515454. Western blot analysis of DZIP1 expression in CCRF-CEM (A), NTERA-2 cl.D1 (B), ES-2 (C) and PC-3 (D) whole cell lysates.



DZIP1 (C-7): sc-515454. Western blot analysis of DZIP1 expression in HeLa (A) and NIH/3T3 (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.

PROTOCOLS

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

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