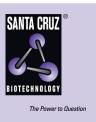
SANTA CRUZ BIOTECHNOLOGY, INC.

DAZAP1 (T-14): sc-55088



BACKGROUND

DAZAP1 (deleted in azoospermia-associated protein 1) is a 407 amino acid RNA-binding protein that interacts with DAZ (deleted in azoospermia), a gene with multiple protein products that are deleted in infertile men. Localized to the nucleus of round spermatids and to the cytoplasm of elongated spermatids, DAZAP1 contains two RNP motifs and is thought to be essential for normal spermatogenesis. Binding of DAZAP1 to DAZ mRNA induces translation of DAZ proteins that are required for germ cell development. When DAZAP1 is phosphorylated, it dissociates from DAZ mRNA and prevents proper protein translation, thereby regulating the expression of DAZ proteins. Additionally, DAZAP1 can fuse to the DNA-binding protein MEF-2D, a fusion that disrupts proper signaling pathways and may, therefore, be involved in leukemogenesis. DAZAP1 is expressed predominately in the testis, with weak expression observed in the thymus, heart, liver, brain and pancreas. Two isoforms of DAZAP1 exist due to alternative splicing events.

REFERENCES

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- Prima, V., et al. 2005. Cloning and functional characterization of MEF2D/ DAZAP1 and DAZAP1/MEF2D fusion proteins created by a variant t(1;19) (q23;p13.3) in acute lymphoblastic leukemia. Leukemia 19: 806-813.
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- Lin, Y.T. and Yen, P.H. 2006. A novel nucleocytoplasmic shuttling sequence of DAZAP1, a testis-abundant RNA-binding protein. RNA 12: 1486-1493.

CHROMOSOMAL LOCATION

Genetic locus: DAZAP1 (human) mapping to 19p13.3; Dazap1 (mouse) mapping to 10 C1.

SOURCE

DAZAP1 (T-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of DAZAP1 of human origin.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-55088 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

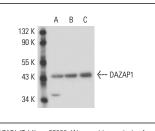
DAZAP1 (T-14) is recommended for detection of DAZAP1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 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 DAZAP1 siRNA (h): sc-62194, DAZAP1 siRNA (m): sc-62195, DAZAP1 shRNA Plasmid (h): sc-62194-SH, DAZAP1 shRNA Plasmid (m): sc-62195-SH, DAZAP1 shRNA (h) Lentiviral Particles: sc-62194-V and DAZAP1 shRNA (m) Lentiviral Particles: sc-62195-V.

Molecular Weight of DAZAP1: 45 kDa.

Positive Controls: IMR-32 nuclear extract: sc-2148, rat testis extract: sc-2400 or mouse testis extract: sc-2405.

DATA



DAZAP1 (T-14): sc-55088. Western blot analysis of DAZAP1 expression in IMR-32 nuclear extract (\bf{A}) and rat testis (\bf{B}) and mouse testis (\bf{C}) tissue extracts.

RESEARCH USE

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

PROTOCOLS

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

MONOS Satisfation Guaranteed

Try DAZAP1 (D-9): sc-373987 or DAZAP1 (F-5): sc-376208, our highly recommended monoclonal alternatives to DAZAP1 (T-14).