# SANTA CRUZ BIOTECHNOLOGY, INC.

# DAZAP2 (G-4): sc-515182



BACKGROUND

DAZAP2 (DAZ-associated protein 2), also known as deleted in azoospermiaassociated protein 2 or PRTB, is a 108 amino acid proline-rich protein that interacts with DAZ (deleted in azoospermia), a gene with multiple protein products that are deleted in infertile men. Involved in spermatogenesis, RNA splicing, transcription regulation and cell signaling, DAZAP2 is known to interact with Sox-6 and DAZL and participates in the pathogenesis of multiple myeloma. A cytoplasmic protein, DAZAP2 is encoded by a gene that maps to human chromosome 12, which encodes over 1,100 genes and comprises approximately 4.5% of the human genome. Chromosome 12 is associated with a variety of diseases and afflictions, including hypochondrogenesis, achondrogenesis, Kniest dysplasia, Noonan syndrome and trisomy 12p, which causes facial developmental defects and seizure disorders.

# REFERENCES

- 1. Tsui, S., et al. 2000. Identification of two novel proteins that interact with germ-cell-specific RNA-binding proteins DAZ and DAZL1. Genomics 65: 266-273.
- 2. Delgado Carrasco, J., et al. 2001. Achondrogenesis type II-hypochondrogenesis: radiological features. Case report. An. Esp. Pediatr. 55: 553-557.
- 3. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 607431. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
- 4. Yokoyama, T., et al. 2003. A case of Kniest dysplasia with retinal detachment and the mutation analysis. Am. J. Ophthalmol. 136: 1186-1188.

## CHROMOSOMAL LOCATION

Genetic locus: DAZAP2 (human) mapping to 12q13.13; Dazap2 (mouse) mapping to 15 F1.

#### SOURCE

DAZAP2 (G-4) is a mouse monoclonal antibody raised against amino acids 1-121 mapping at the N-terminus of DAZAP2 of human origin.

# PRODUCT

Each vial contains 200  $\mu g$  lgG\_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

DAZAP2 (G-4) is available conjugated to agarose (sc-515182 AC), 500  $\mu$ g/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-515182 HRP), 200  $\mu$ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-515182 PE), fluorescein (sc-515182 FITC), Alexa Fluor<sup>®</sup> 488 (sc-515182 AF488), Alexa Fluor<sup>®</sup> 546 (sc-515182 AF546), Alexa Fluor<sup>®</sup> 594 (sc-515182 AF594) or Alexa Fluor<sup>®</sup> 647 (sc-515182 AF647), 200  $\mu$ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor<sup>®</sup> 680 (sc-515182 AF680) or Alexa Fluor<sup>®</sup> 790 (sc-515182 AF790), 200  $\mu$ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

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# **RESEARCH USE**

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

## APPLICATIONS

DAZAP2 (G-4) is recommended for detection of DAZAP2 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g 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 DAZAP2 siRNA (h): sc-95755, DAZAP2 siRNA (m): sc-142878, DAZAP2 shRNA Plasmid (h): sc-95755-SH, DAZAP2 shRNA Plasmid (m): sc-142878-SH, DAZAP2 shRNA (h) Lentiviral Particles: sc-95755-V and DAZAP2 shRNA (m) Lentiviral Particles: sc-142878-V.

Molecular Weight of DAZAP2: 17 kDa.

Positive Controls: I-11.15 whole cell lysate: sc-364370, HeLa whole cell lysate: sc-2200 or A-375 cell lysate: sc-3811.

## **RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG $\kappa$  BP-HRP: sc-516102 or m-IgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>TM</sup> Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> 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-IgG $\kappa$  BP-FITC: sc-516140 or m-IgG $\kappa$  BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz<sup>®</sup> Mounting Medium: sc-24941 or UltraCruz<sup>®</sup> Hard-set Mounting Medium: sc-359850.

#### DATA





DAZAP2 (G-4): sc-515182. Western blot analysis of DAZAP2 expression in HeLa (A), RAW 264.7 (B), Neuro-2A (C), J774.A1 (D) and C6 (E) whole cell

DAZAP2 (G-4): sc-515182. Western blot analysis of DAZAP2 expression in I-11.15 (**A**), HeLa (**B**) and A-375 (**C**) whole cell lysates.

#### SELECT PRODUCT CITATIONS

 Li, J., et al. 2019. Promoter methylation induced epigenetic silencing of DAZAP2, a downstream effector of p38/MAPK pathway, in multiple myeloma cells. Cell. Signal. 60: 136-145.

# **STORAGE**

lysates

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