

DAZAP2 (L-12): sc-109249

BACKGROUND

DAZAP2 (DAZ-associated protein 2), also known as deleted in azoospermia-associated 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 achondrogenesis, 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.
5. Cohen-Barak, O., et al. 2003. Sox6 regulation of cardiac myocyte development. *Nucleic Acids Res.* 31: 5941-5948.
6. Shi, Y., et al. 2004. The structure, expression and function prediction of DAZAP2, a down-regulated gene in multiple myeloma. *Genomics Proteomics Bioinformatics* 2: 47-54.
7. Forzano, F., et al. 2007. A familial case of achondrogenesis type II caused by a dominant COL2A1 mutation and "patchy" expression in the mosaic father. *Am. J. Med. Genet. A* 143A: 2815-2820.
8. Shi, Y.W., et al. 2007. Molecular features and expression of DAZAP2 in human multiple myeloma. *Chin. Med. J.* 120: 1659-1665.
9. Kim, J.E., et al. 2008. Proline-rich transcript in brain protein induces stress granule formation. *Mol. Cell. Biol.* 28: 803-813.

CHROMOSOMAL LOCATION

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

SOURCE

DAZAP2 (L-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of DAZAP2 of rat origin.

RESEARCH USE

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

PRODUCT

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

Blocking peptide available for competition studies, sc-109249 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

DAZAP2 (L-12) is recommended for detection of DAZAP2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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 or our catalog for detailed protocols and support products.


 MONOS
 Satisfaction
 Guaranteed

Try **DAZAP2 (G-4): sc-515182**, our highly recommended monoclonal alternative to DAZAP2 (L-12).