DAZAP1 (B-7): sc-376335

**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**


**CHROMOSOMAL LOCATION**

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

**SOURCE**

DAZAP1 (B-7) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 253-285 within an internal region of DAZAP1 of human origin.

**PRODUCT**

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

Blocking peptide available for competition studies, sc-376335 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

**APPLICATIONS**

DAZAP1 (B-7) is recommended for detection of DAZAP1 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 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: Jurkat nuclear extract: sc-2132, F9 cell lysate: sc-2245 or IMR-32 nuclear extract: sc-2148.

**RECOMMENDED SUPPORT REAGENTS**

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

1) Western Blotting: use m-IgG kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.2% stabilizer protein.
2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).
3) Immunofluorescence: use m-IgG kappa light chain in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein.

**DATA**

DAZAP1 (B-7) sc-376335: Western blot analysis of DAZAP1 expression in F9 whole cell lysates (A) and mouse testes (B) and rat testis (C) tissue extracts.

DAZAP1 (B-7) sc-376335: Western blot analysis of DAZAP1 expression in IMR-32 (A) and Jurkat (B) nuclear extracts.

**STORAGE**

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