

DND1 (C-12): sc-160297

BACKGROUND

Primordial germ cells (PGCs) are precursor germ cells that divide rapidly and migrate toward the developing gonads. DND1 (dead end protein homolog 1), also known as RBMS4 (RNA-binding motif, single-stranded-interacting protein 4), is a 353 amino acid protein that contains 2 RRM (RNA recognition motif) domains and localizes to perinuclear germ granules within PGCs. Expressed specifically in PGCs throughout embryogenesis, DND1 is thought to play a role in PGC development, but is not necessary for PGC migration to gonadal regions. Mutations in the gene encoding DND1 may result in germ cell loss and the subsequent development of testicular germ cell tumors, suggesting that DND1 may play a role in tumorigenesis.

REFERENCES

1. Stevens, L.C. 1973. A new inbred subline of mice (129-terSv) with a high incidence of spontaneous congenital testicular teratomas. *J. Natl. Cancer Inst.* 50: 235-242.
2. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 609385. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

CHROMOSOMAL LOCATION

Genetic locus: DND1 (human) mapping to 5q31.3.

SOURCE

DND1 (C-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of DND1 of human origin.

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-160297 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

DND1 (C-12) is recommended for detection of DND1 of 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), immunohistochemistry (including paraffin-embedded sections) (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 DND1 siRNA (h): sc-91708, DND1 shRNA Plasmid (h): sc-91708-SH and DND1 shRNA (h) Lentiviral Particles: sc-91708-V.

Molecular Weight (predicted) of DND1: 39 kDa.

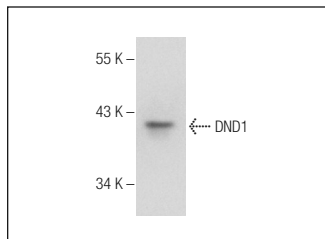
Molecular Weight (observed) of DND1: 35 kDa.

Positive Controls: HeLa nuclear extract: sc-2120, T-47D whole cell lysate: sc-364193 or Jurkat whole cell lysate: sc-2204.

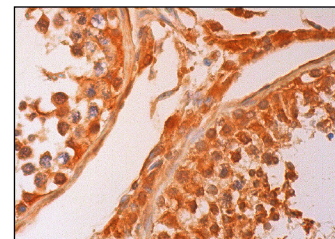
RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



DND1 (C-12): sc-160297. Western blot analysis of DND1 expression in T-47D whole cell lysate.



DND1 (C-12): sc-160297. Immunoperoxidase staining of formalin fixed, paraffin-embedded human testis tissue showing cytoplasmic and nuclear staining of cells in seminiferous ducts and Leydig cells.

STORAGE

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

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
Satisfaction
Guaranteed

Try **DND1 (X22): sc-130493**, our highly recommended monoclonal alternative to DND1 (C-12).