SANTA CRUZ BIOTECHNOLOGY, INC.

DENND3 (C-16): sc-87080

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

DENND3 (DENN/MADD domain containing 3) is a 1,198 amino acid protein that contains a single DENN, dDENN and uDENN domain, as well as 3 WD repeats. Existing as four alternatively spliced isoforms, the DENND3 gene is conserved in chimpanzee, canine, bovine, mouse, rat, chicken and zebrafish, and maps to human chromosome 8q24.3. Made up of nearly 146 million bases, chromosome 8 encodes about 800 genes. Translocation of portions of chromosome 8 with amplifications of the c-Myc gene are found in some leukemias and lymphomas, and typically associated with a poor prognosis. Portions of chromosome 8 have been linked to schizophrenia and bipolar disorder. WRN is a DNA helicase encoded by chromosome 8 and shown defective in those with the early aging disorder Werner syndrome. Chromosome 8 is also associated with Pfeiffer syndrome, congenital hypothyroidism and Waardenburg syndrome.

CHROMOSOMAL LOCATION

Genetic locus: DENND3 (human) mapping to 8q24.3; Dennd3 (mouse) mapping to 15 D3.

SOURCE

DENND3 (C-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of DENND3 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-87080 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

DENND3 (C-16) is recommended for detection of DENND3 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).

DENND3 (C-16) is also recommended for detection of DENND3 in additional species, including bovine and avian.

Suitable for use as control antibody for DENND3 siRNA (h): sc-77627, DENND3 siRNA (m): sc-143001, DENND3 shRNA Plasmid (h): sc-77627-SH, DENND3 shRNA Plasmid (m): sc-143001-SH, DENND3 shRNA (h) Lentiviral Particles: sc-77627-V and DENND3 shRNA (m) Lentiviral Particles: sc-143001-V.

Molecular Weight (predicted) of DENND3: 136 kDa.

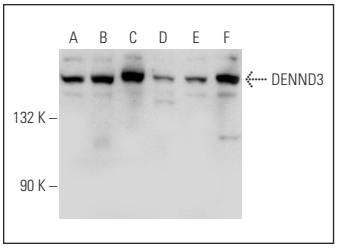
Molecular Weight (observed) of DENND3: 170 kDa.

Positive Controls: HEL 92.1.7 cell lysate: sc-2270, TF-1 cell lysate: sc-2412 or Jurkat whole cell lysate: sc-2204.

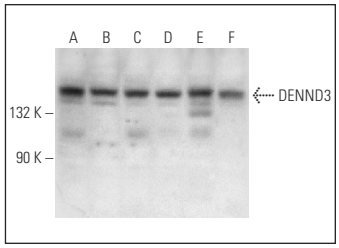
RECOMMENDED SECONDARY REAGENTS

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



DENND3 (C-16): sc-87080. Western blot analysis of DENND3 expression in HEL 92.1.7 (**A**), TF-1 (**B**), Jurkat (**C**), HL-60 (**D**), K-562 (**E**) and NCI-H1688 (**F**) whole cell lysates.



DENND3 (C-16): sc-87080. Western blot analysis of DENND3 expression in IMR-32 (**A**), MOLT-4 (**B**), SJRH30 (**C**), HeLa (**D**), AML-193 (**E**) and SK-N-SH (**F**) whole cell lysates.

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.