

DENND3 (A-6): sc-390685

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.

REFERENCES

1. Espanel, X. and Sudol, M. 2001. Yes-associated protein and p53-binding protein-2 interact through their WW and SH3 domains. *J. Biol. Chem.* 276: 14514-14523.
2. Selicorni, A., et al. 2002. Cytogenetic mapping of a novel locus for type II Waardenburg syndrome. *Hum. Genet.* 110: 64-67.
3. McQueen, M.B., et al. 2005. Combined analysis from eleven linkage studies of bipolar disorder provides strong evidence of susceptibility loci on chromosomes 6q and 8q. *Am. J. Hum. Genet.* 77: 582-595.

CHROMOSOMAL LOCATION

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

SOURCE

DENND3 (A-6) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 1169-1192 of DENND3 of human origin.

PRODUCT

Each vial contains 200 µg IgG₁ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

DENND3 (A-6) is available conjugated to agarose (sc-390685 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-390685 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-390685 PE), fluorescein (sc-390685 FITC), Alexa Fluor® 488 (sc-390685 AF488), Alexa Fluor® 546 (sc-390685 AF546), Alexa Fluor® 594 (sc-390685 AF594) or Alexa Fluor® 647 (sc-390685 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-390685 AF680) or Alexa Fluor® 790 (sc-390685 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-390685 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

RESEARCH USE

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

APPLICATIONS

DENND3 (A-6) is recommended for detection of DENND3 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).

DENND3 (A-6) is also recommended for detection of DENND3 in additional species, including equine.

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.

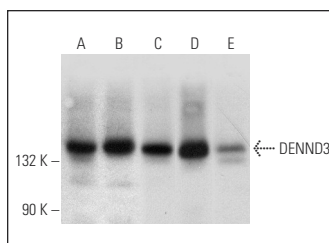
Molecular Weight (observed) of DENND3: 170 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, HeLa whole cell lysate: sc-2200 or SK-N-SH cell lysate: sc-2410.

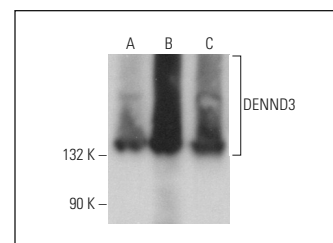
RECOMMENDED SUPPORT REAGENTS

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

DATA



DENND3 (A-6): sc-390685. Western blot analysis of DENND3 expression in IMR-32 (A), MOLT-4 (B), HeLa (C), AML-193 (D) and SK-N-SH (E) whole cell lysates.



DENND3 (A-6): sc-390685. Western blot analysis of DENND3 expression in HeLa (A), HEL 92.1.7 (B) and TF-1 (C) 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.

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