

# DENND4B (S-19): sc-246430

## BACKGROUND

DENND4B (DENN/MADD domain containing 4B), also known as KIAA0476, is a 1,496 amino acid protein that contains a dDENN domain, a DENN domain, a uDENN domain, a MABP domain and 2 PPR (pentatricopeptide) repeats. The DENND4B protein is thought to target a tubular membrane compartment adjacent to the Golgi, where it activates Rab10. The gene encoding DENND4B maps to human chromosome 1, the largest human chromosome which spans about 260 million base pairs and makes up 8% of the human genome. Other notable genes located on chromosome 1 include LMNA, which is associated with the rare aging disease Hutchinson-Gilford progeria, and the MUTYH gene, which is partially responsible for familial adenomatous polyposis.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: DENND4B (human) mapping to 1q21.3; Dennd4b (mouse) mapping to 3 F1.

## SOURCE

DENND4B (S-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of DENND4B of human origin.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.

## 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-246430 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

DENND4B (S-19) is recommended for detection of DENND4B 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); non cross-reactive with DENND4A or DENND4C.

Suitable for use as control antibody for DENND4B siRNA (h): sc-88449, DENND4B siRNA (m): sc-143003, DENND4B shRNA Plasmid (h): sc-88449-SH, DENND4B shRNA Plasmid (m): sc-143003-SH, DENND4B shRNA (h) Lentiviral Particles: sc-88449-V and DENND4B shRNA (m) Lentiviral Particles: sc-143003-V.

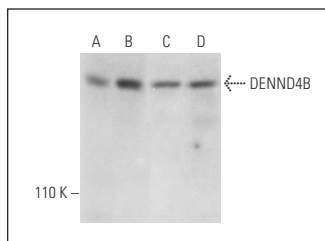
Molecular Weight of DENND4B: 164 kDa.

Positive Controls: U-251-MG whole cell lysate: sc-364176, K-562 whole cell lysate: sc-2203 or HEL 92.1.7 cell lysate: sc-2270.

## 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



DENND4B (S-19): sc-246430. Western blot analysis of DENND4B expression in THP-1 (A), U-87 MG (B), K-562 (C) and HEL 92.1.7 (D) whole cell lysates.

## RESEARCH USE

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