# DENND2D (K-14): sc-164166



The Power to Question

#### **BACKGROUND**

DENND2D (DENN/MADD domain containing 2D) is a 471 amino acid protein that contains a dDENN domain, a DENN domain, and a uDENN domain and exists as 2 isoforms as a result of alternative splicing. The DENND2D protein is thought to target to actin filaments and control Rab9-dependent trafficking of mannose-6-phosphate receptor to lysosomes. The gene encoding DENND2D 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. Stickler syndrome, Parkinsons, Gaucher disease and Usher syndrome.

# **REFERENCES**

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# CHROMOSOMAL LOCATION

Genetic locus: DENND2D (human) mapping to 1p13.3; Dennd2d (mouse) mapping to 3 F2.3.

#### **SOURCE**

DENND2D (K-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of DENND2D of human origin.

### **PRODUCT**

Each vial contains 200  $\mu g$  IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-164166 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### **APPLICATIONS**

DENND2D (K-14) is recommended for detection of DENND2D of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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 DENND2A or DENND2C.

DENND2D (K-14) is also recommended for detection of DENND2D in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for DENND2D siRNA (h): sc-88453, DENND2D siRNA (m): sc-143000, DENND2D shRNA Plasmid (h): sc-88453-SH, DENND2D shRNA Plasmid (m): sc-143000-SH, DENND2D shRNA (h) Lentiviral Particles: sc-88453-V and DENND2D shRNA (m) Lentiviral Particles: sc-143000-V.

Molecular Weight of DENND2D: 53 kDa.

### **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) 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.

#### **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.

**Santa Cruz Biotechnology, Inc.** 1.800.457.3801 831.457.3801 **Europe** +00800 4573 8000 49 6221 4503 0 **www.scbt.com**