

DAPLE (A-13): sc-137416

BACKGROUND

DAPLE, also known as CCDC88C (coiled-coil domain containing 88C) or HkRP2 (hook-related protein 2), is a 2,028 amino acid protein that exists as a homo-oligomer and belongs to the CCDC88 family. Existing as three alternative isoforms, DAPLE is a negative regulator of the canonical Wnt signaling pathway where it inhibits β -catenin stabilization downstream from Dvl. DAPLE contains multiple leucine residues, interacts with Dvl-1 through its PDZ domain and is encoded by a gene mapping to human chromosome 14q32.11. Chromosome 14 houses over 700 genes, comprises nearly 3.5% of the human genome and encodes the Presenilin 1 (PSEN1) gene, which is one of the three key genes associated with the development of Alzheimer's disease (AD). The SERPINA1 gene is also located on chromosome 14 and, when defective, leads to the genetic disorder α 1-antitrypsin deficiency, which is characterized by severe lung complications and liver dysfunction.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CCDC88C (human) mapping to 14q32.11; Ccdc88c (mouse) mapping to 12 E.

SOURCE

DAPLE (A-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of DAPLE of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-137416 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

DAPLE (A-13) is recommended for detection of DAPLE isoforms 1-3 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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).

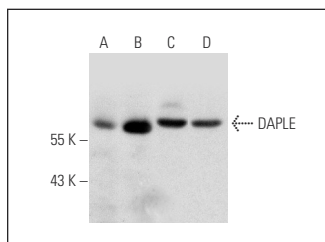
DAPLE (A-13) is also recommended for detection of DAPLE isoforms 1-3 in additional species, including avian.

Suitable for use as control antibody for DAPLE siRNA (h): sc-92206, DAPLE siRNA (m): sc-142874, DAPLE shRNA Plasmid (h): sc-92206-SH, DAPLE shRNA Plasmid (m): sc-142874-SH, DAPLE shRNA (h) Lentiviral Particles: sc-92206-V and DAPLE shRNA (m) Lentiviral Particles: sc-142874-V.

Molecular Weight of DAPLE isoforms: 228/58/49 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, Ramos cell lysate: sc-2216 or Jurkat whole cell lysate: sc-2204.

DATA



DAPLE (A-13): sc-137416. Western blot analysis of DAPLE expression in RT-4 (A), HeLa (B), Ramos (C) and Jurkat (D) 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.


 MONOS
Satisfaction
Guaranteed

Try **DAPLE (F-3): sc-514550**, our highly recommended monoclonal alternative to DAPLE (A-13).