

# APCDD1L (G-16): sc-85273

## BACKGROUND

APCDD1 (adenomatosis polyposis coli downregulated 1), also known as B7323, DRAPC1 or FP7019, is a 514 amino acid single-pass type I membrane protein whose transcription is regulated by the  $\beta$ -catenin/ITF-2 complex. Expressed in high levels in ovary, heart, pancreas and prostate, with lower levels in spleen, lung, kidney, liver and colon, APCDD1 is thought to function as a developmental target of the  $\beta$ -catenin pathway and may play an important role in colorectal tumorigenesis. The gene encoding human APCDD1 maps to chromosome 18, which houses over 300 protein-coding genes and contains nearly 76 million bases. There are a variety of diseases associated with defects in chromosome 18-localized genes, some of which include Trisomy 18 (also known as Edwards syndrome), Niemann-Pick disease, hereditary hemorrhagic telangiectasia, erythropoietic protoporphyria and follicular lymphomas.

## REFERENCES

- Collins, S., McLean, C.A. and Masters, C.L. 2001. Gerstmann-Sträussler-Scheinker syndrome, fatal familial insomnia and kuru: a review of these less common human transmissible spongiform encephalopathies. *J. Clin. Neurosci.* 8: 387-397.
- Masullo, C. and Macchi, G. 2001. Does PRNP gene control the clinical and pathological phenotype of human spongiform transmissible encephalopathies? *Clin. Neuropathol.* 20: 19-25.
- Takahashi, M., Fujita, M., Furukawa, Y., Hamamoto, R., Shimokawa, T., Miwa, N., Ogawa, M. and Nakamura, Y. 2002. Isolation of a novel human gene, APCDD1, as a direct target of the  $\beta$ -catenin/T cell factor 4 complex with probable involvement in colorectal carcinogenesis. *Cancer Res.* 62: 5651-5656.
- Joó, J.G., Beke, A., Tóth-Pál, E., Hargitai, B., Szigeti, Z., Papp, C. and Papp, Z. 2006. Trisomy 20 mosaicism and nonmosaic Trisomy 20: a report of 2 cases. *J. Reprod. Med.* 51: 209-212.

## CHROMOSOMAL LOCATION

Genetic locus: APCDD1L (human) mapping to 20q13.32.

## SOURCE

APCDD1L (G-16) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the C-terminus of APCDD1L of human origin.

## PRODUCT

Each vial contains 100  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-85273 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## STORAGE

Store at 4° C, \*\*DO NOT FREEZE\*\*. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## APPLICATIONS

APCDD1L (G-16) is recommended for detection of APCDD1L of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ 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).

Suitable for use as control antibody for APCDD1L siRNA (h): sc-72513, APCDD1L shRNA Plasmid (h): sc-72513-SH and APCDD1L shRNA (h) Lentiviral Particles: sc-72513-V.

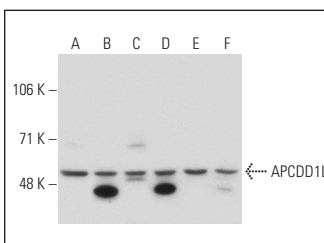
Molecular Weight of APCDD1L: 56 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227, SH-SY5Y cell lysate: sc-3812 or MIA PaCa-2 cell lysate: sc-2285

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

## DATA



APCDD1L (G-16): sc-85273. Western blot analysis of APCDD1L expression in Hep G2 (A), K-562 (B), Hs 67 (C), SH-SY5Y (D), MIA PaCa-2 (E) and Caki-1 (F) whole cell lysates.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.