

# AXUD1 (C-18): sc-49279

## BACKGROUND

Axin, an important regulator of  $\beta$ -catenin, is frequently mutated in human hepatocellular carcinomas (HCCs). Transduction of the wildtype Axin gene (AXIN1) induces apoptosis in colon cancer cells as well as in HCC cells. Axin-1 upregulated gene 1 protein (AXUD1), also designated TGF $\beta$ -induced apoptosis protein 3 (TAIP-3) or URAX1, is ubiquitously expressed, but highest levels are detected in placenta, lung, skeletal muscle, leukocytes and pancreas. AXUD1 has increased expression in response to exogenously expressed Axin-1 and localizes primarily to the nucleus. It is downregulated in kidney, lung, liver and colon cancers compared with corresponding unaffected tissues, which implicates that AXUD1 may function as a tumor-suppressor in these organs. AXUD1 may also be involved in apoptosis.

## REFERENCES

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5. Yi, X., Bekerjian, R., DeFilippis, N.J., Siddiquee, Z., Fernandez, E. and Shohet, R.V. 2006. Transcriptional analysis of doxorubicin-induced cardiotoxicity. *Am. J. Physiol. Heart Circ. Physiol.* 290: H1098-H1102.

## CHROMOSOMAL LOCATION

Genetic locus: CSRN1 (human) mapping to 3p22.2; Csrnp1 (mouse) mapping to 9 F4.

## SOURCE

AXUD1 (C-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of AXUD1 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-49279 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## RESEARCH USE

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

## APPLICATIONS

AXUD1 (C-18) is recommended for detection of AXUD1 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).

AXUD1 (C-18) is also recommended for detection of AXUD1 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for AXUD1 siRNA (h): sc-60237, AXUD1 siRNA (m): sc-60238, AXUD1 shRNA Plasmid (h): sc-60237-SH, AXUD1 shRNA Plasmid (m): sc-60238-SH, AXUD1 shRNA (h) Lentiviral Particles: sc-60237-V and AXUD1 shRNA (m) Lentiviral Particles: sc-60238-V.

Molecular Weight of AXUD1: 64 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

## 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<sup>™</sup> compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> 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<sup>™</sup> 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.

## PROTOCOLS

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

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Try **AXUD1 (2055E3a): sc-81191**, our highly recommended monoclonal alternative to AXUD1 (C-18).