# SANTA CRUZ BIOTECHNOLOGY, INC.

# ARID3C (E-12): sc-136564



BACKGROUND

ARID3C (AT rich interactive domain 3C) is a 412 amino acid nuclear protein containing an ARID domain that is a member of the AT-rich interaction domain family of proteins. ARID family members are involved in embryonic patterning, cell lineage gene regulation, cell cycle control, transcriptional regulation and chromatin structure modification. The ARID domain is a helix-turn-helix motif-based DNA-binding domain. The gene encoding ARID3C is located on human chromosome 9, which houses over 900 genes and comprises nearly 4% of the human genome. Hereditary hemorrhagic telangiectasia, which is characterized by harmful vascular defects and Familial dysautonomia, are both associated with chromosome 9. Notably, chromosome 9 encompasses the largest interferon family gene cluster.

# REFERENCES

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- 2. Numata, S., et al. 1999. BDP, a new member of a family of DNA-binding proteins, associates with the retinoblastoma gene product. Cancer Res. 59: 3741-3747.
- 3. Kortschak, R.D., et al. 2000. ARID proteins come in from the desert. Trends Biochem. Sci. 25: 294-299.
- Humphray, S.J., et. al. 2004. DNA sequence and analysis of human chromosome 9. Nature 429: 369-374.
- Kobayashi, K., et al. 2006. ARID3B induces malignant transformation of mouse embryonic fibroblasts and is strongly associated with malignant neuroblastoma. Cancer Res. 66: 8331-8336.
- Takebe, A., et al. 2006. Microarray analysis of PDGFRα<sup>+</sup> populations in ES cell differentiation culture identifies genes involved in differentiation of mesoderm and mesenchyme including ARID3B that is essential for development of embryonic mesenchymal cells. Dev. Biol. 293: 25-37.

# CHROMOSOMAL LOCATION

Genetic locus: ARID3C (human) mapping to 9p13.3; Arid3c (mouse) mapping to 4 A5.

### SOURCE

ARID3C (E-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ARID3C 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-136564 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

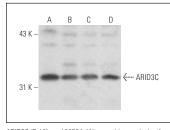
ARID3C (E-12) is recommended for detection of ARID3C of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with ARID3A or ARID3B.

Suitable for use as control antibody for ARID3C siRNA (h): sc-92525, ARID3C siRNA (m): sc-141231, ARID3C shRNA Plasmid (h): sc-92525-SH, ARID3C shRNA Plasmid (m): sc-141231-SH, ARID3C shRNA (h) Lentiviral Particles: sc-92525-V and ARID3C shRNA (m) Lentiviral Particles: sc-141231-V.

Molecular Weight of ARID3C: 44 kDa.

Positive Controls: BJAB whole cell lysate: sc-2207, Ramos cell lysate: sc-2216 or NIH/3T3 whole cell lysate: sc-2210.

#### DATA



ARID3C (E-12): sc-136564. Western blot analysis of ARID3C expression in NIH/3T3 (A), Jurkat (B), Ramos (C) and BJAB (D) nuclear extracts.

# **STORAGE**

Store at 4° C, \*\*D0 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 or our catalog for detailed protocols and support products.

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