SANTA CRUZ BIOTECHNOLOGY, INC.

ARID3A (C-18): sc-8822

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

ARID3A, also known as DRIL1 in humans and Bright (for B cell regulator of IgH transcription) in mice, are the mammalian homologs of the *Drosophila* Dri (dead ringer) protein. ARID3A is developmentally regulated and is expressed in a restricted set of cells, including differentiating cells of the gut and salivary glands. ARID3A represents a member of a unique family of transcriptional activators that shares sequence similarity to proteins of SWI/SNF complexes; it contains an A/T-rich DNA-binding (ARID) domain and a distinct domain involved in tetramerization. The gene encoding ARID3A is linked to a marker of Peutz-Jeghers syndrome, which is an autosomal-dominant disorder characterized by melanocytic macules of the lips, multiple gastrointestinal hamartomatous polyps and an increased risk for various neoplasms, including gastrointestinal cancer. E2FBP1 (E2F-1 binding protein 1) is identical to ARID3A in the carboxy-terminal region. E2FBP1 appears to lack DNA binding and transactivation domains, and it functions to regulate the transcription of proteins involved in cell proliferation by binding to the transcription factor E2F-1.

CHROMOSOMAL LOCATION

Genetic locus: ARID3A (human) mapping to 19p13.3.

SOURCE

ARID3A (C-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of ARID3A of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-8822 X, 200 µg/0.1 ml.

Blocking peptide available for competition studies, sc-8822 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ARID3A (C-18) is recommended for detection of ARID3A of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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).

ARID3A (C-18) is also recommended for detection of ARID3A in additional species, including canine.

Suitable for use as control antibody for ARID3A siRNA (h): sc-35222, ARID3A shRNA Plasmid (h): sc-35222-SH and ARID3A shRNA (h) Lentiviral Particles: sc-35222-V.

ARID3A (C-18) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

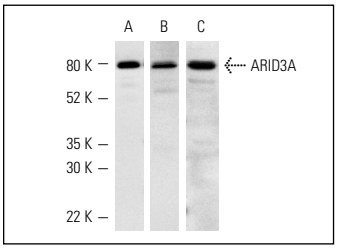
Molecular Weight of ARID3A: 80 kDa.

Positive Controls: K-562 nuclear extract: sc-2130 or K-562 whole cell lysate: sc-2203.

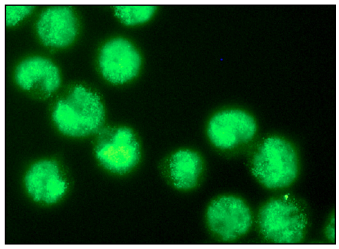
RECOMMENDED SECONDARY REAGENTS

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



Western blot analysis of ARID3A expression in K-562 nuclear extract (**A**,**B**,**C**). Antibodies tested include ARID3A (N-20): sc-8821 (**A**), ARID3A (M-18): sc-8823 (**B**) and ARID3A (C-18): sc-8822 (**C**).



ARID3A (C-18): sc-8822. Immunofluorescence staining of methanol-fixed K-562 cells showing nuclear localization.

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.

MONOS Satisfaction Guaranteed

Try **ARID3A (A-4): sc-398367** or **ARID3A (4D6): sc-101030**, our highly recommended monoclonal alternatives to ARID3A (C-18).