SANTA CRUZ BIOTECHNOLOGY, INC.

ARID1A/B (H-300): sc-48791

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

The SWI-SNF complex is involved in the activation of transcription via the remodeling of nucleosome structure in an ATP-dependent manner. Brm (also designated SNF2α) and Brg-1 (also designated SNF2β) are the ATPase subunits of the mammalian SWI-SNF complex. Brm, Brg-1, Ini1 (integrase interactor 1, also designated SNF5), BAF155 (also designated SRG3) and BAF170 are thought to comprise the functional core of the SWI-SNF complex. Addition of Ini1, BAF155 and BAF170 to Brg-1 appears to increase remodeling activity. Other complex subunits, such as BAF250 (p270 or ARID1A) and BAF250b (ARID1B), are thought to play regulatory roles.

REFERENCES

1. Muchardt, C., et al. 1993. A human homologue of *Saccharomyces cerevisiae* SNF2/SWI2 and *Drosophila* Brm genes potentiates transcriptional activation by the glucocorticoid receptor. EMBO J. 12: 4279-4290.
2. Khavari, P.A., et al. 1993. Brg-1 contains a conserved domain of the SWI2/SNF2 family necessary for normal mitotic growth and transcription. Nature 366: 170-174.

CHROMOSOMAL LOCATION

Genetic locus: ARID1A (human) mapping to 1p36.11, ARID1B (human) mapping to 16q25.3; Arid1a (mouse) mapping to 4 D3, Arid1b (mouse) mapping to 17 A1.

SOURCE

ARID1A/B (H-300) is a rabbit polyclonal antibody raised against amino acids 1937-2236 mapping at the C-terminus of ARID1B 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-48791 X, 200 µg/0.1 ml.

APPLICATIONS

ARID1A/B (H-300) is recommended for detection of ARID1A and ARID1B of mouse, rat and 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).

ARID1A/B (H-300) is also recommended for detection of ARID1A and ARID1B in additional species, including equine, canine, bovine, porcine and avian.

ARID1A/B (H-300) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

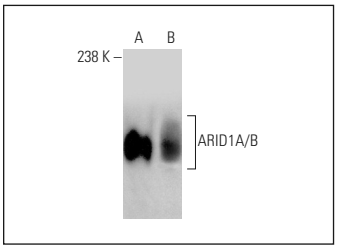
Molecular Weight of phosphorylated ARID1A/B and ARID1A/B degradation products: 165-320 kDa.

Positive Controls: Y79 cell lysate: sc-2240, Jurkat whole cell lysate: sc-2204 or SH-SY5Y cell lysate: sc-3812.

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



ARID1A/B (H-300): sc-48791. Western blot analysis of ARID1A/B expression in Y79 (**A**) and Jurkat (**B**) 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.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.