

ARID1A (H-90): sc-98441

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 Snf2 α) and Brg-1 (also designated Snf2 β) 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 BAF250a (p270 or ARID1A) and BAF250b (ARID1B), are thought to play regulatory roles.

REFERENCES

- 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.
- 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.
- Imbalzano, A.N., et al. 1996. Nucleosome disruption by human Swi/Snf is maintained in the absence of continued ATP hydrolysis. *J. Biol. Chem.* 271: 20726-20733.
- Dallas, P.B., et al. 1998. p300/CREB binding protein-related protein p270 is a component of mammalian Swi/Snf complexes. *Mol. Cell. Biol.* 18: 3596-3603.
- Phelan, M.L., et al. 1999. Reconstitution of a core chromatin remodeling complex from Swi/Snf subunits. *Mol. Cell* 3: 247-253.

CHROMOSOMAL LOCATION

Genetic locus: ARID1A (human) mapping to 1p36.11; Arid1a (mouse) mapping to 4 D3.

SOURCE

ARID1A (H-90) is a rabbit polyclonal antibody raised against amino acids 1236-1325 mapping within an internal region of ARID1A of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-98441 X, 200 μ g/0.1 ml.

STORAGE

Store at 4 $^{\circ}$ 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 or our catalog for detailed protocols and support products.

APPLICATIONS

ARID1A (H-90) is recommended for detection of ARID1A of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ 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). ARID1A (H-90) is also recommended for detection of ARID1A in additional species, including canine and bovine.

Suitable for use as control antibody for ARID1A siRNA (h): sc-43628, ARID1A siRNA (m): sc-45942, ARID1A shRNA Plasmid (h): sc-43628-SH, ARID1A shRNA Plasmid (m): sc-45942-SH, ARID1A shRNA (h) Lentiviral Particles: sc-43628-V and ARID1A shRNA (m) Lentiviral Particles: sc-45942-V.

ARID1A (H-90) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

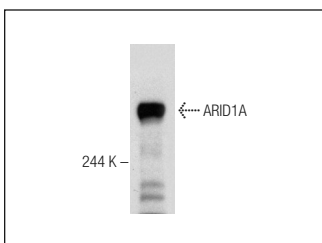
Molecular Weight of ARID1A: 165-320 kDa.

Positive Controls: SH-SY5Y cell lysate: sc-3812 or Y79 cell lysate: sc-2240.

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 MarkerTM compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz MarkerTM 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 UltraCruzTM Mounting Medium: sc-24941.

DATA



ARID1A (H-90): sc-98441. Western blot analysis of ARID1A expression in Y79 whole cell lysate.

RESEARCH USE

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



Try **ARID1A (PSG3): sc-32761** or **ARID1A (C-7): sc-373784**, our highly recommended monoclonal alternatives to ARID1A (H-90). Also, for AC, HRP, FITC, PE, Alexa Fluor[®] 488 and Alexa Fluor[®] 647 conjugates, see **ARID1A (PSG3): sc-32761**.