

ARID2 (H-182): sc-98299

BACKGROUND

BAF200 (AT-rich interactive domain-containing protein 2, BRG1-associated factor 200) is a 1,835 amino acid protein encoded by the human gene ARID2. BAF200 is a nuclear protein that belongs to the SWI/SNF family of chromatin-remodeling complexes and contains one ARID domain. It is involved in transcriptional activation and repression of select genes by chromatin remodeling (alteration of DNA-nucleosome topology). BAF200 is required for the stability of the BAF (SWI/SNF-A) and PBAF (SWI/SNF-B) chromatin remodeling complexes. It also may be involved in targeting the SWI/SNF complex to different genes.

REFERENCES

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- Gerhard, D.S., et al. 2004. The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). *Genome Res.* 14: 2121-2127.
- Wilsker, D., et al. 2005. Nomenclature of the ARID family of DNA-binding proteins. *Genomics* 86: 242-251.
- Patsialou, A., et al. 2005. DNA-binding properties of ARID family proteins. *Nucleic Acids Res.* 33: 66-80.
- Yan, Z., et al. 2005. PBAF chromatin-remodeling complex requires a novel specificity subunit, BAF200, to regulate expression of selective interferon-responsive genes. *Genes Dev.* 19: 1662-1667.
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CHROMOSOMAL LOCATION

Genetic locus: ARID2 (human) mapping to 12q12; Arid2 (mouse) mapping to 15 F1.

SOURCE

ARID2 (H-182) is a rabbit polyclonal antibody raised against amino acids 1134-1316 mapping within an internal region of ARID2 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.

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-98299 X, 200 µg/0.1 ml.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

ARID2 (H-182) is recommended for detection of ARID2 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).

ARID2 (H-182) is also recommended for detection of ARID2 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for ARID2 siRNA (h): sc-96225, ARID2 siRNA (m): sc-77400, ARID2 shRNA Plasmid (h): sc-96225-SH, ARID2 shRNA Plasmid (m): sc-77400-SH, ARID2 shRNA (h) Lentiviral Particles: sc-96225-V and ARID2 shRNA (m) Lentiviral Particles: sc-77400-V.

BAF200 (H-182) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight (predicted) of ARID2: 197 kDa.

Molecular Weight (observed) of ARID2: 217 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210, HEK293 whole cell lysate: sc-45136 or F2408 whole cell lysate.

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.

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.


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Try **ARID2 (E-3): sc-166117**, our highly recommended monoclonal alternatives to ARID2 (H-182). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **ARID2 (E-3): sc-166117**.