

# ARID2 (G-12): sc-107450

## BACKGROUND

BAF200 (AT-rich interactive domain-containing protein 2, Brg-1-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

1. Whitehouse, I., et al. 2000. Mechanisms for ATP-dependent chromatin remodelling. *Biochem. Soc. Trans.* 28: 376-379.
2. Martens, J.A. and Winston, F. 2003. Recent advances in understanding chromatin remodeling by SWI/SNF complexes. *Curr. Opin. Genet. Dev.* 13: 136-142.
3. 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.
4. Wilsker, D., et al. 2005. Nomenclature of the ARID family of DNA-binding proteins. *Genomics* 86: 242-251.
5. Patsialou, A., et al. 2005. DNA-binding properties of ARID family proteins. *Nucleic Acids Res.* 33: 66-80.
6. 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.
7. Zhang, X., et al. 2006. Zipzap/p200 is a novel zinc finger protein contributing to cardiac gene regulation. *Biochem. Biophys. Res. Commun.* 346: 794-801.

## CHROMOSOMAL LOCATION

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

## SOURCE

ARID2 (G-12) is an affinity purified goat polyclonal antibody raised against a peptide 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.

Blocking peptide available for competition studies, sc-107450 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-107450 X, 200 µg/0.1 ml.

## RESEARCH USE

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

## APPLICATIONS

ARID2 (G-12) 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), 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 other BAF family members.

ARID2 (G-12) is also recommended for detection of ARID2 in additional species, including canine and bovine.

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.

ARID2 (G-12) 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.

## 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) 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.

## STORAGE

Store at 4° 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](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **ARID2 (E-3): sc-166117**, our highly recommended monoclonal alternatives to ARID2 (G-12). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **ARID2 (E-3): sc-166117**.