SANTA CRUZ BIOTECHNOLOGY, INC.

BAF60a (G-13): sc-82778

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

BAF60a (BRG1-associated factor 60A), also known as SMARCD1 (SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily δ, member 1), Rsc6p or CRACD1, is a 476 amino acid protein that localizes to the nucleus and contains one SWIB domain. Expressed ubiquitously with notable expression in liver, brain, muscle, lung, kidney, pancreas and placenta, BAF60a functions as a component of the BAF complex and, in conjunction with a variety of other proteins, plays an essential role in chromatin remodeling. In addition, BAF60a influences vitamin D-mediated transcriptional activity and is thought to provide a link between the vitamin D receptor (VDR) and SWI/SNF chromatin remodeling complexes. Multiple isoforms of BAF60a exist due to alternative splicing events.

REFERENCES

1. Wang, W., et al. 1996. Diversity and specialization of mammalian SWI/SNF complexes. Genes Dev. 10: 2117-2130.
2. Ring, H.Z., et al. 1998. Five SWI/SNF-related, matrix-associated, actin-dependent regulator of chromatin (SMARC) genes are dispersed in the human genome. Genomics 51: 140-143.
3. Phelan, M.L., et al. 1999. Reconstitution of a core chromatin remodeling complex from SWI/SNF subunits. Mol. Cell 3: 247-253.
4. Online Mendelian Inheritance in Man, OMIM™. 1999. Johns Hopkins University, Baltimore, MD. MIM Number: 601735. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
5. Xue, Y., et al. 2000. The human SWI/SNF-B chromatin-remodeling complex is related to yeast rsc and localizes at kinetochores of mitotic chromosomes. Proc. Natl. Acad. Sci. USA 97: 13015-13020.
6. Ito, T., et al. 2001. Identification of SWI.SNF complex subunit BAF60a as a determinant of the transactivation potential of Fos/Jun dimers. J. Biol. Chem. 276: 2852-2857.

CHROMOSOMAL LOCATION

Genetic locus: SMARCD1 (human) mapping to 12q13.12; Smarcd1 (mouse) mapping to 15 F1.

SOURCE

BAF60a (G-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of BAF60A 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-82778 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

BAF60a (G-13) is recommended for detection of BAF60A 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); non cross-reactive with other BAF family members.

BAF60a (G-13) is also recommended for detection of BAF60A in additional species, including equine and canine.

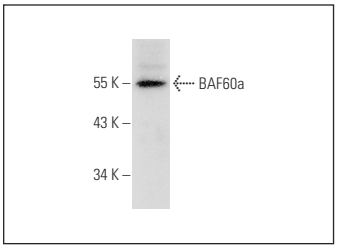
Suitable for use as control antibody for BAF60a siRNA (h): sc-72597, BAF60a siRNA (m): sc-72598, BAF60a shRNA Plasmid (h): sc-72597-SH, BAF60a shRNA Plasmid (m): sc-72598-SH, BAF60a shRNA (h) Lentiviral Particles: sc-72597-V and BAF60a shRNA (m) Lentiviral Particles: sc-72598-V.

Positive Controls: Jurkat whole cell lysate: sc-2204.

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



BAF60a (G-13): sc-82778. Western blot analysis of BAF60a expression in Jurkat whole cell lysate.

STORAGE

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

MONOS Satisfaction Guaranteed

Try **BAF60a (A-11): sc-514400** or **BAF60a (23): sc-135843**, our highly recommended monoclonal alternatives to BAF60a (G-13).