

BAF155 (M-16): sc-9748

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 SNF1 or SNF2 α) and Brg-1 (also designated SNF2 or 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 are thought to play regulatory roles. hSNF2L and hSNF2H both appear to be homologs of *Drosophila* ISWI, a Brm related ATPase that is present in chromatin remodeling complexes other than SWI/SNF, including the NURF (nucleosome remodeling factor).

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.
3. Tsukiyama, T., et al. 1995. ISWI, a member of the SWI2/SNF2 ATPase family, encodes the 140 kDa subunit of the nucleosome remodeling factor. Cell 83: 1021-1026.
4. 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.
5. 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: SMARCC1 (human) mapping to 3p21.31; Smarcc1 (mouse) mapping to 9 F2.

SOURCE

BAF155 (M-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of BAF155 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.

Blocking peptide available for competition studies, sc-9748 P, (100 μ g 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-9748 X, 200 μ g/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

BAF155 (M-16) is recommended for detection of BAF155 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500), indirect flow cytometry (1 μ g per 1 x 10⁶ cells) using FITC-conjugated donkey anti-goat IgG: sc-2024 and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

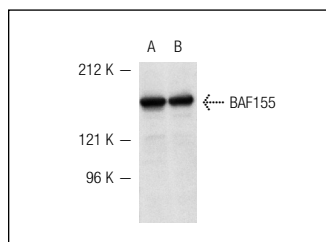
Suitable for use as control antibody for BAF155 siRNA (h): sc-29780, BAF155 siRNA (m): sc-29781, BAF155 shRNA Plasmid (h): sc-29780-SH, BAF155 shRNA Plasmid (m): sc-29781-SH, BAF155 shRNA (h) Lentiviral Particles: sc-29780-V and BAF155 shRNA (m) Lentiviral Particles: sc-29781-V.

BAF155 (M-16) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

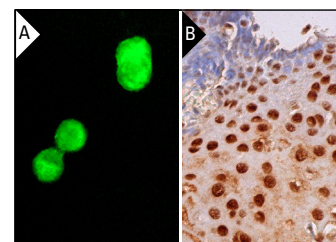
Molecular Weight of BAF155: 150 kDa.

Positive Controls: K-562 nuclear extract: sc-2130, Jurkat nuclear extract: sc-2132 or KNRK nuclear extract: sc-2141.

DATA



BAF155 (M-16): sc-9748. Western blot analysis of BAF155 expression in Jurkat (A) and K-562 (B) nuclear extracts.



BAF155 (M-16): sc-9748. Immunofluorescence staining of methanol-fixed K-562 cells showing nuclear staining (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human esophagus tissue showing nuclear staining of squamous epithelial cells (B).

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.



Try **BAF155 (DXD7): sc-32763** or **BAF155 (F-2): sc-48350**, our highly recommended monoclonal alternatives to BAF155 (M-16).