

BAF155 (R-18): sc-9746

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).

CHROMOSOMAL LOCATION

Genetic locus: SMARCC1 (human) mapping to 3p21.31; Smarcc1 (mouse) mapping to 9 F2.

SOURCE

BAF155 (R-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region 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-9746 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-9746 X, 200 μ g/0.1 ml.

APPLICATIONS

BAF155 (R-18) 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) 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 (R-18) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of BAF155: 150 kDa.

Positive Controls: HeLa nuclear extract: sc-2120, Jurkat nuclear extract: sc-2132 or KNRK nuclear extract: sc-2141.

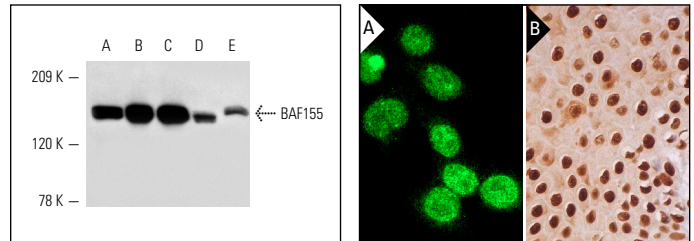
RESEARCH USE

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

STORAGE

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

DATA



BAF155 (R-18): sc-9746. Western blot analysis of BAF155 expression in HeLa (A), Jurkat (B), K-562 (C), KNRK (D) and NIH/3T3 (E) nuclear extracts.

BAF155 (R-18): sc-9746. Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear staining (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human oral mucosa tissue showing nuclear staining of squamous epithelial cells (B).

SELECT PRODUCT CITATIONS

1. Medjkane, S., et al. 2004. The tumor suppressor hSNF5/INI1 modulates cell growth and actin cytoskeleton organization. *Cancer Res.* 64: 3406-3413.
2. Sun, F., et al. 2007. Nuclear reprogramming: the zygotic transcription program is established through an "erase-and-rebuild" strategy. *Cell Res.* 17: 117-134.
3. Zheng, J., et al. 2008. Erasure of the paternal transcription program during spermiogenesis: the first step in the reprogramming of sperm chromatin for zygotic development. *Dev. Dyn.* 237: 1463-1476.
4. Chuang, Y.S., et al. 2011. Promyelocytic leukemia protein in retinoic acid-induced chromatin remodeling of Oct4 gene promoter. *Stem Cells* 29: 660-669.
5. Garcia-Gutierrez, P., et al. 2014. Pleiotrophin antagonizes Brd2 during neuronal differentiation. *J. Cell Sci.* 127: 2554-2564.

PROTOCOLS

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Try **BAF155 (DXD7): sc-32763** or **BAF155 (F-2): sc-48350**, our highly recommended monoclonal alternatives to BAF155 (R-18).