

BAF155 (H-76): sc-10756

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 (integrator 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 (H-76) is a rabbit polyclonal antibody raised against amino acids 998-1073 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.

Available as TransCruz reagent for Gel Supershift and ChIP applications, sc-10756 X, 200 μ g/0.1 ml.

APPLICATIONS

BAF155 (H-76) 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

BAF155 (H-76) is also recommended for detection of BAF155 in additional species, including equine and canine.

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 (H-76) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of BAF155: 150 kDa.

Positive Controls: HeLa nuclear extract: sc-2120, HeLa whole cell lysate: sc-2200 or K-562 whole cell lysate: sc-2203.

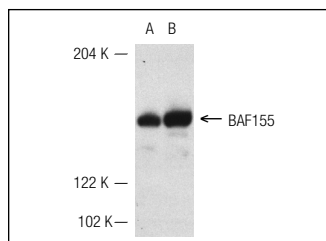
STORAGE

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

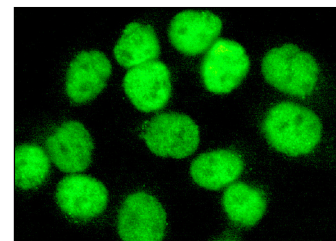
RESEARCH USE

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

DATA



BAF155 (H-76): sc-10756. Western blot analysis of BAF155 expression in HeLa (A) and K-562 (B) whole cell lysates.



BAF155 (H-76): sc-10756. Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear staining.

SELECT PRODUCT CITATIONS

- Oruetebarria, I., et al. 2004. p16^{INK4a} is required for hSNF5 chromatin-remodeler induced cellular senescence in malignant rhabdoid tumor cells. *J. Biol. Chem.* 279: 3807-3816.
- Gui, C.Y., et al. 2004. Histone deacetylase (HDAC) inhibitor activation of p21^{WAF1} involves changes in promoter-associated proteins, including HDAC1. *Proc. Natl. Acad. Sci. USA* 101: 1241-1246.
- Fukuoka, J., et al. 2004. Chromatin remodeling factors and BRM/BRG1 expression as prognostic indicators in non-small cell lung cancer. *Clin. Cancer Res.* 10: 4314-4324.
- Doan, D.N. 2004. Loss of the INI1 tumor suppressor does not impair the expression of multiple BRG1-dependent genes or the assembly of SWI/SNF enzymes. *Oncogene* 23: 3462-3473.
- Taylor, T.J., et al. 2004. Proteomics of herpes simplex virus replication compartments: association of cellular DNA replication, repair, recombination, and chromatin remodeling proteins with ICP8. *J. Virol.* 78: 5856-5866.
- Euskirchen, G.M., et al. 2011. Diverse roles and interactions of the SWI/SNF chromatin remodeling complex revealed using global approaches. *PLoS Genet.* 7: e1002008.
- DeBove, J., et al. 2011. Identification of a core member of the SWI/SNF complex, BAF155/SMARCC1, as a human tumor suppressor gene. *Epigenetics* 6: 1444-1453.
- Song, J., et al. 2012. DNA and chromatin modification networks distinguish stem cell pluripotent ground states. *Mol. Cell. Proteomics* 11: 1036-1047.

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Try **BAF155 (DXD7): sc-32763** or **BAF155 (F-2): sc-48350**, our highly recommended monoclonal alternatives to BAF155 (H-76).