

BAF155 (F-2): sc-48350

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 (F-2) is a mouse monoclonal antibody raised against amino acids 998-1073 of BAF155 of human origin.

PRODUCT

Each vial contains 200 μ g IgG κ light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Also available as TransCruz reagent for Gel Supershift and ChIP applications, sc-48350 X, 200 μ g/0.1 ml.

BAF155 (F-2) is available conjugated to agarose (sc-48350 AC), 500 μ g/0.25 ml agarose in 1 ml, for IP; to HRP (sc-48350 HRP), 200 μ g/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-48350 PE), fluorescein (sc-48350 FITC), Alexa Fluor[®] 488 (sc-48350 AF488), Alexa Fluor[®] 546 (sc-48350 AF546), Alexa Fluor[®] 594 (sc-48350 AF594) or Alexa Fluor[®] 647 (sc-48350 AF647), 200 μ g/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor[®] 680 (sc-48350 AF680) or Alexa Fluor[®] 790 (sc-48350 AF790), 200 μ g/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

BAF155 (F-2) is recommended for detection of BAF155 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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).

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 (F-2) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

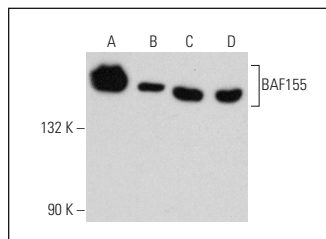
Molecular Weight of BAF155: 150 kDa.

Positive Controls: NTERA-2 cl.D1 whole cell lysate: sc-364181, BW5147 cell lysate: sc-3800 or KNRK whole cell lysate: sc-2214.

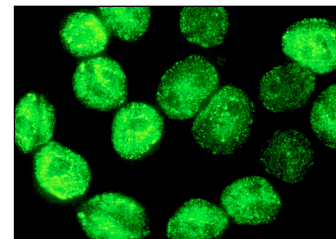
STORAGE

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

DATA



BAF155 (F-2): sc-48350. Western blot analysis of BAF155 expression in NTERA-2 cl.D1 (A), BW5147 (B), KNRK (C) and L8 (D) whole cell lysates.



BAF155 (F-2): sc-48350. Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear localization.

SELECT PRODUCT CITATIONS

- Kenneth, N.S., et al. 2009. SWI/SNF regulates the cellular response to hypoxia. *J. Biol. Chem.* 284: 4123-4131.
- Harte, M.T., et al. 2010. BRD7, a subunit of SWI/SNF complexes, binds directly to BRCA1 and regulates BRCA1-dependent transcription. *Cancer Res.* 70: 2538-2547.
- Ferreira de Freitas, R., et al. 2016. Discovery of a potent and selective coactivator associated arginine methyltransferase 1 (CARM1) inhibitor by virtual screening. *J. Med. Chem.* 59: 6838-6847.
- Inoue, D., et al. 2019. Spliceosomal disruption of the non-canonical BAF complex in cancer. *Nature* 574: 432-436.
- Lim, H.Y.G., et al. 2020. Keratins are asymmetrically inherited fate determinants in the mammalian embryo. *Nature* 585: 404-409.
- Sokpor, G., et al. 2021. Loss of BAF complex in developing cortex perturbs radial neuronal migration in a WNT signaling-dependent manner. *Front. Mol. Neurosci.* 14: 687581.
- Mao, X., et al. 2021. Mapping of domain-mediated protein-protein interaction by SPOT peptide assay. *STAR Protoc.* 2: 100503.
- Hornbachner, R., et al. 2021. MSX2 safeguards syncytiotrophoblast fate of human trophoblast stem cells. *Proc. Natl. Acad. Sci. USA* 118: e2105130118.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

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