# SANTA CRUZ BIOTECHNOLOGY, INC.

# BAF170 (H-116): sc-10757



# 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 $\alpha$ ) and Brg-1 (also designated SNF2 or SNF2 $\beta$ ) 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: SMARCC2 (human) mapping to 12q13.2.

#### SOURCE

BAF170 (H-116) is a rabbit polyclonal antibody raised against amino acids 1093-1208 of BAF170 of human origin.

#### PRODUCT

Each vial contains 200  $\mu$ g lgG 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-10757 X, 200  $\mu$ g/0.1 ml.

#### **APPLICATIONS**

BAF170 (H-116) is recommended for detection of BAF170 of human and *Xenopus laevis* 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), immunohistochemistry (including paraffinembedded 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).

BAF170 (H-116) is also recommended for detection of BAF170 in additional species, including porcine.

Suitable for use as control antibody for BAF170 siRNA (h): sc-29782, BAF170 shRNA Plasmid (h): sc-29782-SH and BAF170 shRNA (h) Lentiviral Particles: sc-29782-V.

BAF170 (H-116) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of BAF170: 170 kDa.

Positive Controls: A-431 nuclear extract: sc-2122, K-562 nuclear extract: sc-2130 or HeLa whole cell lysate: sc-2200.

#### **STORAGE**

Store at 4° C, \*\*D0 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





BAF170 (H-116): sc-10757. Western blot analysis of BAF170 expression in A-431  $({\rm A})$  and K-562  $({\rm B})$  nuclear extracts.

BAF170 (H-116): sc-10757. Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear localization (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human esophagus tissue showing nuclear and cytoplasmic staining of squamous epithelial cells (B).

## SELECT PRODUCT CITATIONS

- 1. Metivier, R., et al. 2003. Estrogen receptor- $\alpha$  directs ordered, cyclical, and combinatorial recruitment of cofactors on a natural target promoter. Cell 115: 751-763.
- Foster, K.S., et al. 2006. Members of the hSWI/SNF chromatin remodeling complex associate with and are phosphorylated by protein kinase B/Akt. Oncogene 25: 4605-4612.
- Cho, Y.W., et al. 2007. PTIP associates with MLL3- and MLL4-containing histone H3 lysine 4 methyltransferase complex. J. Biol. Chem. 282: 20395-20406.
- Tyagi, A., et al. 2009. SWI/SNF associates with nascent pre-mRNPs and regulates alternative pre-mRNA processing. PLoS Genet. 5: e1000470.
- 5. Ryme, J., et al. 2009. Variations in the composition of mammalian SWI/SNF chromatin remodelling complexes. J. Cell. Biochem. 108: 565-576.
- Vachtenheim, J., et al. 2010. SWI/SNF chromatin remodeling complex is critical for the expression of microphthalmia-associated transcription factor in melanoma cells. Biochem. Biophys. Res. Commun. 392: 454-459.
- 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.
- Van Duyne, R., et al. 2011. Varying modulation of HIV-1 LTR activity by Baf complexes. J. Mol. Biol. 411: 581-596.

MONOS Satisfation Guaranteed Try **BAF170 (E-6): sc-17838** or **BAF170 (G-12): sc-166237**, our highly recommended monoclonal alternatives to BAF170 (H-116).