SANTA CRUZ BIOTECHNOLOGY, INC.

hSNF2H (H-300): sc-13054



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 SNF2 α) and Brg-1 (also designated 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: SMARCA5 (human) mapping to 4q31.21.

SOURCE

hSNF2H (H-300) is a rabbit polyclonal antibody raised against amino acids 753-1052 of hSNF2H of human origin.

PRODUCT

Each vial contains 200 μ 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-13054 X, 200 μ g/0.1 ml.

APPLICATIONS

hSNF2H (H-300) is recommended for detection of hSNF2H of human 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 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).

hSNF2H (H-300) is also recommended for detection of hSNF2H in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for hSNF2H siRNA (h): sc-35594, hSNF2H shRNA Plasmid (h): sc-35594-SH and hSNF2H shRNA (h) Lentiviral Particles: sc-35594-V.

hSNF2H (H-300) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

Molecular Weight of hSNF2H: 135 kDa.

Positive Controls: K-562 whole cell lysate: sc-2203, Jurkat whole cell lysate: sc-2204 or hSNF2H (h): 293T Lysate: sc-113724.

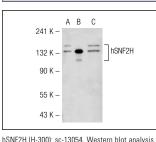
STORAGE

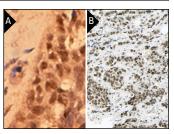
Store at 4° C, **D0 NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

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

DATA





hSNF2H (H-300): sc-13054. Immunoperoxidase staining of formalin fixed, paraffin-embedded human ovary tumou showing nuclear localization (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human breast cancer tissue showing nuclear staining of tumor cells magnification. Kindly provided by The Swedish Human Protein Atlas (HPA) program (B).

SELECT CITATIONS

of hSNF2H expression in non-transfected 293T

sc-117752 (A), human hSNF2H transfected 293T

sc-113724 (B) and K-562 (C) whole cell lysates

- 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.
- Geiman, T.M., et al. 2004. Isolation and characterization of a novel DNA methyltransferase complex linking DNMT3B with components of the mitotic chromosome condensation machinery. Nucleic Acids Res. 32: 2716-2729.
- Geiman, T.M., et al. 2004. DNMT3B interacts with hSNF2H chromatin remodeling enzyme, HDACs 1 and 2, and components of the histone methylation system. Biochem. Biophys. Res. Commun. 318: 544-555.
- Robertson, A.K., et al. 2004. Effects of chromatin structure on the enzymatic and DNA binding functions of DNA methyltransferases DNMT1 and Dnmt3a *in vitro*. Biochem. Biophys. Res. Commun. 322: 110-118.
- Sugimoto, N., et al. 2011. Chromatin remodeler sucrose nonfermenting 2 homolog (SNF2H) is recruited onto DNA replication origins through interaction with Cdc10 protein-dependent transcript 1 (Cdt1) and promotes pre-replication complex formation. J. Biol. Chem. 286: 39200-39210.
- 6. Guetg, C., et al. 2012. Inheritance of silent rDNA chromatin is mediated by PARP1 via noncoding RNA. Mol. Cell 45: 790-800.
- Tsai, Y.C., et al. 2012. Functional proteomics establishes the interaction of SIRT7 with chromatin remodeling complexes and expands its role in regulation of RNA polymerase I transcription. Mol. Cell. Proteomics 11: 60-76.

MONOS Satisfation Guaranteed

Try **hSNF2H (D-10):** sc-365727, our highly recommended monoclonal alternative to hSNF2H (H-300).