SANTA CRUZ BIOTECHNOLOGY, INC.

Ini1 (N-20): sc-9749

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

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 SNF2α) and Brg-1 (also designated SNF2 or SNF2β) 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: SMARCB1 (human) mapping to 22q11.23; Smarcb1 (mouse) mapping to 10 C1.

SOURCE

Ini1 (N-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of Ini1 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-9749 P, (100 µg 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-9749 X, 200 µg/0.1 ml.

APPLICATIONS

Ini1 (N-20) is recommended for detection of Ini1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

Ini1 (N-20) is also recommended for detection of Ini1 in additional species, including canine, bovine, porcine and avian.

Suitable for use as control antibody for Ini1 siRNA (h): sc-35668, Ini1 siRNA (m): sc-35670, Ini1 shRNA Plasmid (h): sc-35668-SH, Ini1 shRNA Plasmid (m): sc-35670-SH, Ini1 shRNA (h) Lentiviral Particles: sc-35668-V and Ini1 shRNA (m) Lentiviral Particles: sc-35670-V.

Ini1 (N-20) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

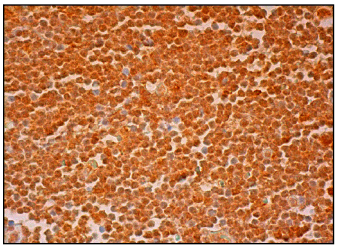
Molecular Weight of Ini1: 47 kDa.

Positive Controls: HeLa nuclear extract: sc-2120, Jurkat nuclear extract: sc-2132 or K-562 nuclear extract: sc-2130.

STORAGE

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

DATA



Ini1 (N-20): sc-9749. Immunoperoxidase staining of formalin fixed, paraffin-embedded human lymph node tissue showing nuclear staining of cells in germinal centers and cells in non-germinal centers.

SELECT PRODUCT CITATIONS

1. Roberts, C.W., et al. 2000. Haploinsufficiency of Snf5 (integrase interactor 1) predisposes to malignant rhabdoid tumors in mice. Proc. Natl. Acad. Sci. USA 97: 13796-13800.
2. Mimori, K., et al. 2002. A single-nucleotide polymorphism of SMARCB1 in human breast cancers. Genomics 80: 254-258.
3. Rieske, P., et al. 2003. Molecular heterogeneity of meningioma with Ini1 mutation. Mol. Pathol. 56: 299-301.
4. Chang, D.F., et al. 2007. LIM-only protein, CRP2, switched on smooth muscle gene activity in adult cardiac myocytes. Proc. Natl. Acad. Sci. USA 104: 157-162.

RESEARCH USE

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

PROTOCOLS

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