

## Ini1 (C-18): sc-9751

### 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: SMARCB1 (human) mapping to 22q11.23; Smarcb1 (mouse) mapping to 10 C1.

### SOURCE

Ini1 (C-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Ini1 of human origin.

### PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-9751 P, (100  $\mu$ g 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-9751 X, 200  $\mu$ g/0.1 ml.

### APPLICATIONS

Ini1 (C-18) is recommended for detection of Ini1A and Ini1B of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ 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).

Ini1 (C-18) is also recommended for detection of Ini1A and Ini1B in additional species, including equine, 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 (C-18) X TransCruz antibody is recommended for Gel Supershift and ChIP applications.

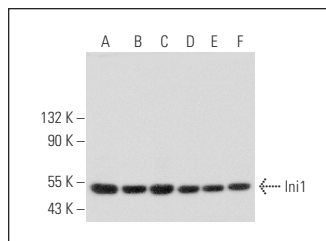
Molecular Weight of Ini1: 47 kDa.

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 (C-18): sc-9751. Western blot analysis of Ini1 expression in HeLa (A), K-562 (B) and Jurkat (C) nuclear extracts and Jurkat (D), K-562 (E) and HeLa (F) whole cell lysates.

### SELECT PRODUCT CITATIONS

- Lee, D., et al. 2002. SWI/SNF complex interacts with tumor suppressor p53 and is necessary for the activation of p53-mediated transcription. *J. Biol. Chem.* 277: 22330-22337.
- Debernardi, S., et al. 2002. The MLL fusion partner AF10 binds GAS41, a protein that interacts with the human SWI/SNF complex. *Blood* 99: 275-281.
- Gwack, Y., et al. 2003. Principal role of TRAP/mediator and SWI/SNF complexes in Kaposi's sarcoma-associated herpesvirus RTA-mediated lytic reactivation. *Mol. Cell. Biol.* 23: 2055-2067.
- Rieske, P., et al. 2003. Molecular heterogeneity of meningioma with Ini1 mutation. *Mol. Pathol.* 56: 299-301.
- Kinstrie, R., et al. 2006. dDYRK2 and Minibrain interact with the chromatin remodelling factors SNR1 and TRX. *Biochem. J.* 398: 45-54.
- Sun, F., et al. 2007. Nuclear reprogramming: the zygotic transcription program is established through an "erase-and-rebuild" strategy. *Cell Res.* 17: 117-134.
- Zheng, J., et al. 2008. Erasure of the paternal transcription program during spermiogenesis: the first step in the reprogramming of sperm chromatin for zygotic development. *Dev. Dyn.* 237: 1463-1476.

### RESEARCH USE

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



Try **Ini1 (A-5): sc-166165** or **Ini1 (F-4): sc-166164**, our highly recommended monoclonal alternatives to Ini1 (C-18). Also, for AC, HRP, FITC, PE, Alexa Fluor<sup>®</sup> 488 and Alexa Fluor<sup>®</sup> 647 conjugates, see **Ini1 (A-5): sc-166165**.