

Ini1 (C-20): sc-16189

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

SOURCE

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

PRODUCT

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

Blocking peptide available for competition studies, sc-16189 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, ****DO 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.

APPLICATIONS

Ini1 (C-20) is recommended for detection of Ini1A and Ini1B of mouse and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence and 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 (C-20) 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.

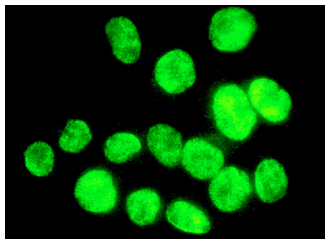
Molecular Weight of Ini1: 47 kDa.

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

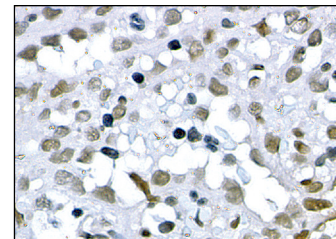
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 3) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

DATA



Ini1 (C-20): sc-16189. Immunofluorescence staining of methanol-fixed HeLa cells showing nuclear localization.



Ini1 (C-20): sc-16189. Immunoperoxidase staining of formalin fixed, paraffin-embedded human spleen tissue showing nuclear localization.

SELECT PRODUCT CITATIONS

- Ryme, J., et al. 2009. Variations in the composition of mammalian SWI/SNF chromatin remodelling complexes. *J. Cell. Biochem.* 108: 565-576.
- 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.
- Steinberg, X.P., et al. 2012. Human CCAAT/enhancer-binding protein β interacts with chromatin remodeling complexes of the imitation switch subfamily. *Biochemistry* 51: 952-962.

PROTOCOLS

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



Try **Ini1 (A-5): sc-166165** or **Ini1 (F-4): sc-166164**, our highly recommended monoclonal alternatives to Ini1 (C-20). Also, for AC, HRP, FITC, PE, Alexa Fluor[®] 488 and Alexa Fluor[®] 647 conjugates, see **Ini1 (A-5): sc-166165**.