Product Information

Anti-INI1/SNF5 Antibody, Mouse monoclonal

Clone 2C2, Purified from Hybridoma Cell Culture

SAB4200202

Product Description

Monoclonal Anti-INI1/SNF5 (mouse IgG2a isotype) is derived from the hybridoma 2C2 produced by the fusion of mouse myeloma cells (SP2) and splenocytes from mouse immunized with a human INI1 (GeneID; 6598) fusion protein. The antibody is purified from culture supernatant of hybridoma cells grown in a bioreactor.

Monoclonal Anti-INI1/SNF5 recognizes human, mouse, rat, monkey, dog and cow INI1. The product may be used in several immunochemical techniques including immunoblotting (~ 44 kDa) and immunocytochemistry.

Chromatin remodeling proteins have been shown to alter local chromatin structure and facilitate recruitment of essential factors required for transcription. They are also involved in other processes that require alteration of chromatin structure including DNA repair, DNA synthesis, mitosis and genomic stability. Several classes of ATPase chromatin remodeling complexes exist including Swi/Snf, ISWI, CHD/Mi-2, and INO80.[1] The Swi/Snf is comprised of 8–12 protein subunits.

BAF155, BAF170, SNF5 and either one of the ATPases BRG1 or BRM, form the constant core of the complex while the remaining subunits vary.[2] SNF5 (also known as INI1/BAF47, SMARCB1) is part of the Swi/Snf complex.[3] It has been shown to bind to the human immunodeficiency virus type 1 (HIV-1) integrase. INI1/SNF5 is recruited to HIV-1 pre- integration complexes before nuclear migration and represses the basal human immunodeficiency virus type 1 promoter activity.[4] This gene has been also found to be a tumor suppressor, and mutations in it have been associated with various tumors.[5-6]

Reagent

Supplied as a solution in 0.01M phosphate buffered saline pH 7.4, containing 15 mM sodium azide.

Antibody concentration: ~ 1.0 mg/mL

Precautions and Disclaimer

For R&D use only. Not for drug, household, or other uses.

Storage/Stability

For continuous use, store at 2-8 °C for up to one month. For extended storage, freeze at –20 °C in working aliquots. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

Product Profile

Immunoblotting: a working antibody concentration of 1.0-2.0 µg/mL is recommended using HeLa cell extracts.

Note: In order to obtain the best results using various techniques and preparations, we recommend determining optimal working dilutions by titration.

References

1. Eberharter, A., and Becker, P.B., *J. Cell. Sci.*, **117**, 3707-3711 (2004).
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3. Muchardt, C., and Yaniv, M., *Oncogene,* **20**, 3067- 3075 (2001).
4. Boese, A., et al., *J. Gen. Virol.*, **90,** 2503-2512 (2009).
5. Sansam, C.G., and Roberts, C.W.M., *Cell Cycle,* **5**, 621-624 (2006).
6. Kreiger, P.A., et al., *Modern Pathol.,* ***22,*** 142-150 (2009).

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