

PRODUCT INFORMATION

INI1 Rabbit Monoclonal Antibody (Clone RM468)

Item No. 42834

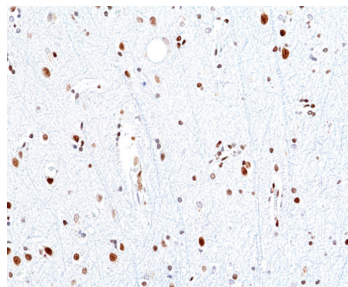
Overview and Properties

Contents:	This vial contains 100 µl of protein A-affinity purified monoclonal antibody.
Synonyms:	BAF47, BRG1-associated Factor 47, Integrase Interactor 1, SMARCB1, hSNF5, SNF5 Homolog, SWI/SNF-related Matrix-associated Actin-dependent Regulator of Chromatin Subfamily B Member 1
Immunogen:	Peptide corresponding to the C-terminus of human INI1
Cross Reactivity:	(+) INI1
Species Reactivity:	(+) Human, mouse, rat
Form:	Liquid
Storage:	-20°C (as supplied)
Stability:	≥1 year
Storage Buffer:	PBS, with 50% glycerol, 1% BSA, and 0.09% sodium azide
Clone:	RM468
Host:	Rabbit
Isotype:	IgG
Applications:	Immunohistochemistry (IHC) and Western blot (WB); the recommended starting dilution is 1:100-1:200 for IHC and 1:1,000-1:10,000 for WB. Other applications were not tested, therefore optimal working concentration/dilution should be determined empirically.

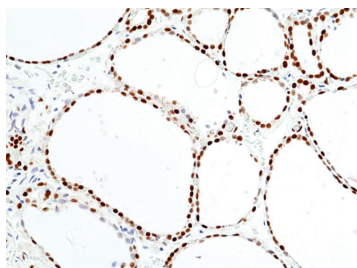
Images



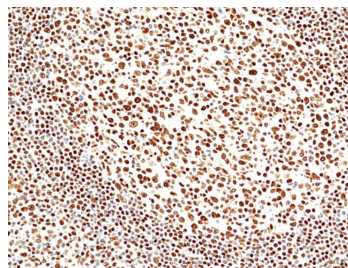
WB of K562 cell lysates using INI1 Rabbit Monoclonal Antibody (Clone RM468) at a dilution of 1:10,000.



Immunohistochemical staining of formalin-fixed and paraffin-embedded human brain tissue using INI1 Rabbit Monoclonal Antibody (Clone RM468) at a dilution of 1:100.



Immunohistochemical staining of formalin-fixed and paraffin-embedded human thyroid tissue using INI1 Rabbit Monoclonal Antibody (Clone RM468) at a dilution of 1:100.



Immunohistochemical staining of formalin-fixed and paraffin-embedded human tonsil tissue using INI1 Rabbit Monoclonal Antibody (Clone RM468) at a dilution of 1:100.

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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Description

Integrase interactor 1 (INI1), also known as SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily B member 1 (SMARCB1), is a subunit in the ATP-dependent chromatin remodeling complex switch/sucrose nonfermentable (SWI/SNF).^{1,2} It is composed of an N-terminal DNA-binding domain, a transcription factor-binding domain, and a C-terminal nucleosome-binding domain.² INI1 is ubiquitously expressed and found in the nucleus.¹ It ejects nucleosomes from compacted DNA/chromatin, which is required for increasing gene expression.² A cytosolic fragment of INI1 (183-294) binds to HIV-1 integrase and inhibits HIV-1 replication in T cells.³ Inactivating mutations or deletions of *SMARCB1*, the gene encoding INI1, are commonly found in cancers.¹ Cayman's INI1 Rabbit Monoclonal Antibody (Clone RM468) can be used for immunohistochemistry (IHC) and Western blot (WB) applications.

References

1. St. Pierre, R., and Kadoch, C. Mammalian SWI/SNF complexes in cancer: Emerging therapeutic opportunities. *Curr. Opin. Genet. Dev.* **42**, 56-67 (2017).
2. He, S., Wu, Z., Tian, Y., et al. Structure of nucleosome-bound human BAF complex. *Science* **367**(6480), 875-881 (2020).
3. Yung, E., Sorin, M., Pal, A., et al. Inhibition of HIV-1 virion production by a transdominant mutant of integrase interactor 1. *Nat. Med.* **7**(8), 920-926 (2001).

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