

ARG66518 anti-SMARCB1 / BAF47 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody recognizes SMARCB1 / BAF47
Tested Reactivity	Hu
Tested Application	IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Isotype	IgG
Target Name	SMARCB1 / BAF47
Species	Human
Immunogen	Synthetic peptide derived from Human SMARCB1 / BAF47.
Conjugation	Un-conjugated
Alternate Names	RDT; BRG1-associated factor 47; Integrase interactor 1 protein; SWNTS1; RTPS1; PPP1R144; hSNFS; SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily B member 1; MRD15; hSNF5; BAF47; INI1; SNF5; SNF5 homolog; SNF5L1; Snr1; Sfh1p

Application Instructions

Application table	Application	Dilution
	IHC-P	1:100 - 1:500
	WB	1:500 - 1:2000
Application Note	IHC-P: Antigen Retrieval: Citrate buffer (pH 6.0) was used. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	~ 46 kDa	

Properties

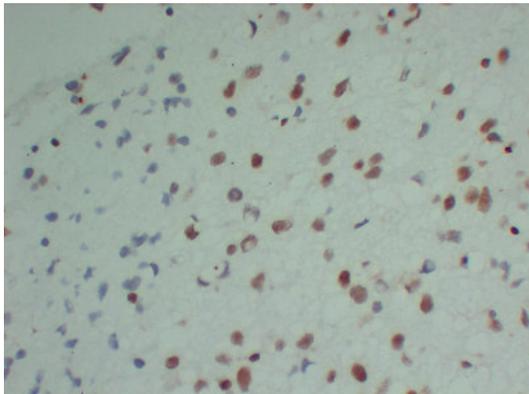
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS, 0.02% Sodium azide, 50% Glycerol and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol and 0.5% BSA
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

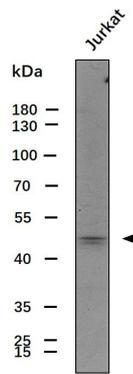
Gene Symbol	SMARCB1
Gene Full Name	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily b, member 1
Background	The protein encoded by this gene is part of a complex that relieves repressive chromatin structures, allowing the transcriptional machinery to access its targets more effectively. The encoded nuclear protein may also bind to and enhance the DNA joining activity of HIV-1 integrase. This gene has been found to be a tumor suppressor, and mutations in it have been associated with malignant rhabdoid tumors. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
Function	Core component of the BAF (hSWI/SNF) complex. This ATP-dependent chromatin-remodeling complex plays important roles in cell proliferation and differentiation, in cellular antiviral activities and inhibition of tumor formation. The BAF complex is able to create a stable, altered form of chromatin that constrains fewer negative supercoils than normal. This change in supercoiling would be due to the conversion of up to one-half of the nucleosomes on polynucleosomal arrays into asymmetric structures, termed altosomes, each composed of 2 histones octamers. Stimulates in vitro the remodeling activity of SMARCA4/BRG1/BAF190A. Involved in activation of CSF1 promoter. Belongs to the neural progenitors-specific chromatin remodeling complex (npBAF complex) and the neuron-specific chromatin remodeling complex (nBAF complex). During neural development a switch from a stem/progenitor to a postmitotic chromatin remodeling mechanism occurs as neurons exit the cell cycle and become committed to their adult state. The transition from proliferating neural stem/progenitor cells to postmitotic neurons requires a switch in subunit composition of the npBAF and nBAF complexes. As neural progenitors exit mitosis and differentiate into neurons, npBAF complexes which contain ACTL6A/BAF53A and PHF10/BAF45A, are exchanged for homologous alternative ACTL6B/BAF53B and DPF1/BAF45B or DPF3/BAF45C subunits in neuron-specific complexes (nBAF). The npBAF complex is essential for the self-renewal/proliferative capacity of the multipotent neural stem cells. The nBAF complex along with CREST plays a role regulating the activity of genes essential for dendrite growth (By similarity). Plays a key role in cell-cycle control and causes cell cycle arrest in G0/G1. [UniProt]
Calculated Mw	44 kDa
Cellular Localization	Nucleus. [UniProt]

Images



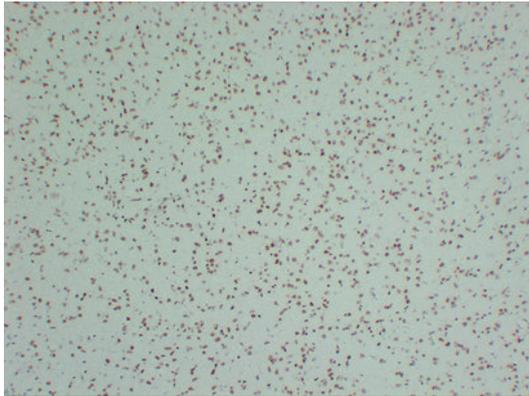
ARG66518 anti-SMARCB1 / BAF47 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human astrocytoma (high magnification) stained with ARG66518 anti-SMARCB1 / BAF47 antibody at 1:200 (4°C, overnight). Antigen Retrieval: Citrate buffer (pH 6.0) was used.



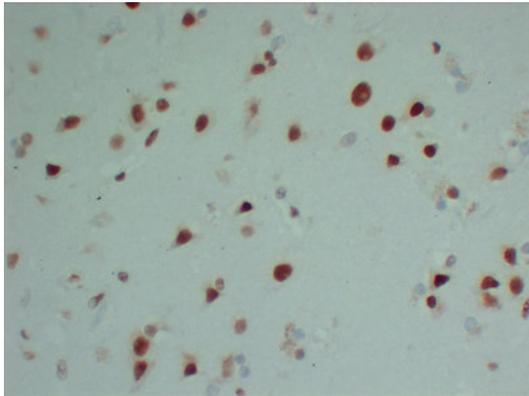
ARG66518 anti-SMARCB1 / BAF47 antibody WB image

Western blot: 30 µg of Jurkat whole cell lysate stained with ARG66518 anti-SMARCB1 / BAF47 antibody at 1:1000 dilution.



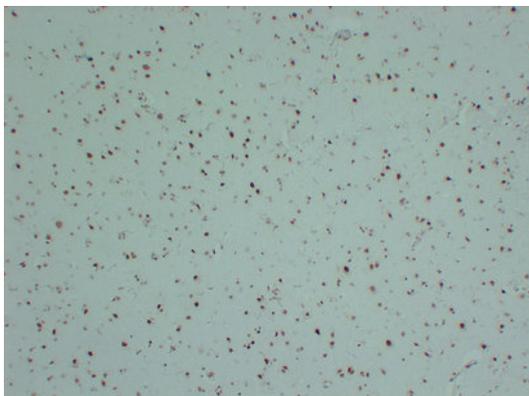
ARG66518 anti-SMARCB1 / BAF47 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human astrocytoma stained with ARG66518 anti-SMARCB1 / BAF47 antibody at 1:200 (4°C, overnight). Antigen Retrieval: Citrate buffer (pH 6.0) was used.



ARG66518 anti-SMARCB1 / BAF47 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human brain (high magnification) stained with ARG66518 anti-SMARCB1 / BAF47 antibody at 1:200 (4°C, overnight). Antigen Retrieval: Citrate buffer (pH 6.0) was used.



ARG66518 anti-SMARCB1 / BAF47 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human brain stained with ARG66518 anti-SMARCB1 / BAF47 antibody at 1:200 (4°C, overnight). Antigen Retrieval: Citrate buffer (pH 6.0) was used.