

Anti-SMARCB1 / INI1 Antibody

Rabbit Anti Human Polyclonal Antibody

Catalog # ALS18169

Product Information

Application	WB, IHC-P, IF, IP
Primary Accession	Q12824
Predicted	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	44141

Additional Information

Gene ID	6598
Alias Symbol	SMARCB1
Other Names	SMARCB1, BRG1-associated factor 47, BAF47, HSNF5, Integrase interactor 1 protein, Kiaa0379, HSNF5, RTPS1, SNF5, Snr1, RDT, Sfh1p, SNF5L1, INI1, MRD15, SNF5 homolog
Target/Specificity	Human SMARCB1 / INI1
Reconstitution & Storage	Affinity purified
Precautions	Anti-SMARCB1 / INI1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SMARCB1
Synonyms	BAF47, INI1, SNF5L1
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.

Cellular Location

Nucleus.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.