For Research Use Only

SMARCB1 Polyclonal antibody

Catalog Number: 20654-1-AP

Featured Product

5 Publications



Basic Information

Catalog Number: GenBank Accession Number:

 20654-1-AP
 NM_003073

 Size:
 GeneID (NCBI):

 150ul , Concentration: 550 ug/ml by
 6598

Nanodrop and 460 ug/ml by Bradford UNIPROT ID: method using BSA as the standard; 012824

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Source: Full Name:

Rabbit SWI/SNF related, matrix associated,
Isotype: actin dependent regulator of
IgG chromatin, subfamily b, member 1

Calculated MW: 44 kDa Observed MW: 40-45 kDa Purification Method:

Antigen affinity purification Recommended Dilutions:

WB: 1:500-1:2000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total

protein lysate IHC: 1:20-1:200

Applications

Tested Applications: WB, IP, IHC, ELISA Cited Applications:

WB. IF

Species Specificity:

human Cited Species: human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 Positive Controls:

WB: HepG2 cells, K-562 cells

IP: K-562 cells,

IHC: human lymphoma tissue, human prostate cancer

tissue

Background Information

SMARCB1, also named as BAF47, INI1 and SNF5L1, belongs to the SNF5 family. It is a core component of the BAF (hSWI/SNF) complex. The BAF complex is able to create a stable, altered form of chromatin that constrains fewer negative supercoils than normal. SMARCB1 stimulates in vitro the remodeling activity of SMARCA4/BRG1/BAF190A. It is involved in activation of CSF1 promoter. SMARCB1 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 post-mitotic chromatin remodeling mechanism occurs as neurons exit the cell cycle and become committed to their adult state. SMARCB1 plays a key role in cell-cycle control and causes cell cycle arrest in GO/G1. It is also involved in vitamin D-coupled transcription regulation via its association with the WINAC complex, a chromatin-remodeling complex recruited by vitamin D receptor (VDR), which is required for the ligand-bound VDR-mediated transrepression of the CYP27B1 gene. Defects in SMARCB1 are a cause of rhabdoid tumor (RDT) which also known as malignant rhabdoid tumor (MRT). Defects in SMARCB1 are a cause of schwannomatosis. The antibody is specific to SMARCB1.

Notable Publications

Author	Pubmed ID	Journal	Application
Ying Chen	35506290	Bioengineered	WB
Li Wang	31915373	Nat Cell Biol	IF
Ying Chen	34999540	Transl Oncol	WB

other manufacturer.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

W: ptglab.com

PBS with 0.02% sodium azide and 50% glycerol, pH7.3 $\,$

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

in USA), or 1(312) 455-8498 (outside USA)

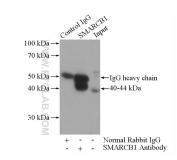
For technical support and original validation data for this product please contact:

This product is exclusively available under Proteintech
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com Group brand and is not available to purchase from any

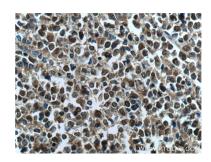
Selected Validation Data



HepG2 cells were subjected to SDS PAGE followed by western blot with 20654-1-AP (SMARCB1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



IP result of anti-SMARCB1 (IP:20654-1-AP, 4ug; Detection:20654-1-AP 1:500) with K-562 cells lysate 3200ug.



Immunohistochemical analysis of paraffinembedded human lymphoma tissue slide using 20654-1-AP (SMARCB1 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).