For Research Use Only

SMARCB1 Polyclonal antibody

Catalog Number:20654-1-AP

Featured Product

4 Publications

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Basic Information	Catalog Number: 20654-1-AP	GenBank Accession Number: NM_003073		Purification Method: Antigen affinity purification		
	Size: 150ul , Concentration: 550 ug/ml by Nanodrop and 460 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 6598 UNIPROT ID: Q12824		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		
					Source: Rabbit Isotype:	
					IgG	
					40-45 kDa	
	Applications				Tested Applications:	Positive Controls:
		•			B: HepG2 ce	lls, K-562 cells
Cited Applications: WB, IF		IP : K-562 cells,				
Species Specificity: human		IHC : human lymphoma tissue, human prostate cance tissue				
Cited Species: human						
Note-IHC: suggested antigen r TE buffer pH 9.0; (*) Alternati retrieval may be performed w buffer pH 6.0		vely, antigen				
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 (nBAF 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 G0/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 schwannomatosis. The antibody is specific to SMARCB1.					
Notable Publications	Author Pub	ned ID Journal		Application		
		06290 Bioenginee	ered	WB		
				IF		
	Li Wang 319					
		99540 Transl Once	ol	WB		

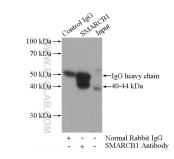
For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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).