

For Research Use Only

SMARCE1 Polyclonal antibody

Catalog Number: 10814-1-AP

1 Publications



Basic Information

Catalog Number: 10814-1-AP	GenBank Accession Number: BC007082	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 900 ug/ml by Nanodrop and 433 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 6605	Recommended Dilutions: WB 1:500-1:2000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: Q969G3	
Isotype: IgG	Full Name: SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily e, member 1	
Immunogen Catalog Number: AG1161	Calculated MW: 47 kDa	
	Observed MW: 50-55 kDa	

Applications

Tested Applications: WB, IP, IHC, ELISA	Positive Controls: WB: Jurkat cells, HEK-293 cells, HeLa cells, MCF-7 cells IP: HEK-293 cells, IHC: human prostate cancer tissue,
Cited Applications: WB	
Species Specificity: human	
Cited Species: mouse	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

Via antagonizing chromatin-mediated transcriptional repression, the SWI/SNF complex in *S. cerevisiae* and *Drosophila* is thought to facilitate transcriptional activation of specific genes. The BRG1/brm-associated factors, or SMARCE1, complex in mammals is functionally related to SWI/SNF and consists of 9 to 12 subunits, some of which are homologous to SWI/SNF subunits. It contains a DNA-binding HMG domain and performs multiple biological functions, including DNA-, protein- and chromatin-binding, transcription coactivating activity, chromatin modification, DNA-dependent negative regulation of transcription, regulation of transcription of the RNA polymerase II promoter. In addition, SMARCE1, as an ER (estrogen receptor) subtype-selective modulator, regulates ER mediated transcription in a ligand-dependent manner and also directly binds to AR (androgen receptor) to alter its activity. The calculated molecular weight of SMARCE1 is 47 kDa, but modified SMARCE1 is about 55 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Kai Song	37810250	iScience	WB

Storage

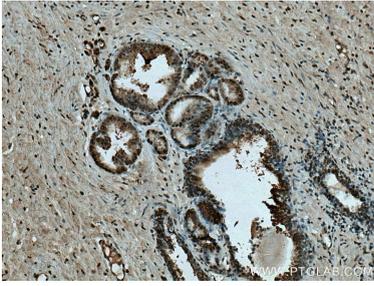
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

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)
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W: ptglab.com

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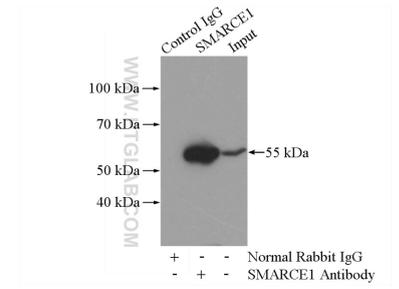
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 10814-1-AP (SMARCE1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Jurkat cells were subjected to SDS PAGE followed by western blot with 10814-1-AP (SMARCE1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-SMARCE1 (IP:10814-1-AP, 4ug; Detection:10814-1-AP 1:800) with HEK-293 cells lysate 880ug.