

For Research Use Only

# SMARCD1 Polyclonal antibody

Catalog Number: 10998-2-AP

Featured Product

9 Publications



## Basic Information

### Catalog Number:

10998-2-AP

### Size:

150ul, Concentration: 433 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1453

### GenBank Accession Number:

BC009368

### GeneID (NCBI):

6602

### UNIPROT ID:

Q96GM5

### Full Name:

SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 1

### Calculated MW:

58 kDa

### Observed MW:

58 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

IF/ICC 1:20-1:200

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IHC, CoIP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

### Positive Controls:

WB : mouse brain tissue, human brain tissue, Jurkat cells

IP : mouse brain tissue,

IHC : human lymphoma tissue,

IF/ICC : SH-SY5Y cells,

**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

SMARCD1 belongs to the nuclear SWI/SNF chromatin remodeling complex, which regulates transcription and interacts with nucleolin in the nucleus. In addition, it's a member of the neural progenitors-specific chromatin remodeling complex (npBAF complex) and the neuron-specific chromatin remodeling complex (nBAF complex). It possesses a SWIB domain which is homologous to and shares a common fold with the p53-binding domain of MDM2, a cell cycle regulator which interacts with NPM1. SMARCD1 has a strong influence on the Vitamin D-mediated transcriptional activity from an enhancer Vitamin D receptor element (VDRE). And it can mediate critical interactions between nuclear receptors and the BRG1/SMARCA4 chromatin-remodeling complex for transactivation. This antibody may have cross reaction with SMARCD2.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xu Zhu	32459350	Nucleic Acids Res	CoIP
Tongyu Liu	32404872	Nat Commun	WB
Shuo Chen	25819031	Cancer Lett	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

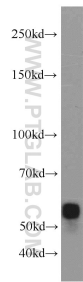
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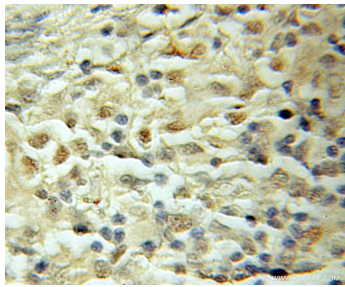
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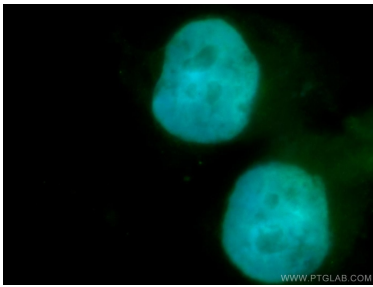
Selected Validation Data



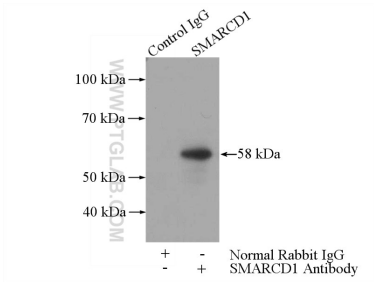
mouse brain tissue were subjected to SDS PAGE followed by western blot with 10998-2-AP (SMARCD1 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lymphoma using 10998-2-AP (SMARCD1 antibody) at dilution of 1:50 (under 10x lens).



Immunofluorescent analysis of SH-SY5Y cells, using SMARCD1 antibody 10998-2-AP at 1:50 dilution and FITC-labeled donkey anti-rabbit IgG(green). Blue pseudocolor = DAPI (fluorescent DNA dye).



IP result of anti-SMARCD1 (IP:10998-2-AP, 3ug; Detection:10998-2-AP 1:600) with mouse brain tissue lysate 4000ug.