

For Research Use Only

# SMARCA4 Recombinant antibody

Catalog Number: 83310-2-RR



## Basic Information

<b>Catalog Number:</b> 83310-2-RR	<b>GenBank Accession Number:</b> BC150298	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 6597	<b>CloneNo.:</b> 240172F4
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P51532	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:2000-1:8000 IF/ICC 1:125-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4	
<b>Immunogen Catalog Number:</b> AG16256	<b>Calculated MW:</b> 1647 aa, 185 kDa	
	<b>Observed MW:</b> 185 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, FC (Intra), ELISA	<b>Positive Controls:</b> <b>WB :</b> HeLa cells, HepG2 cells, HSC-T6 cells, NIH/3T3 cells, HEK-293T cells, C6 cells <b>IHC :</b> human placenta tissue, mouse cerebellum tissue, mouse colon tissue, mouse lung tissue, rat cerebellum tissue, rat colon tissue, rat lung tissue <b>IF/ICC :</b> HepG2 cells,
<b>Species Specificity:</b> human, mouse, rat	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

SMARCA4, also named as BAF190A, BRG1, SNF2B and SNF2L4, belongs to the SNF2/RAD54 helicase family. SMARCA4 is a transcriptional coactivator cooperating with nuclear hormone receptors to potentiate transcriptional activation. It is a component of the CREST-BRG1 complex, a multiprotein complex that regulates promoter activation by orchestrating a calcium-dependent release of a repressor complex and a recruitment of an activator complex. 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.

## Storage

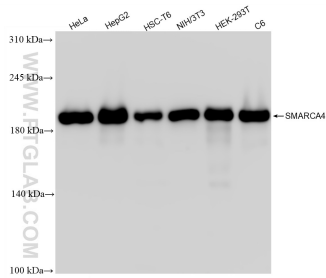
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

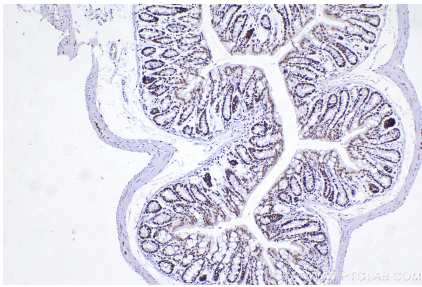
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

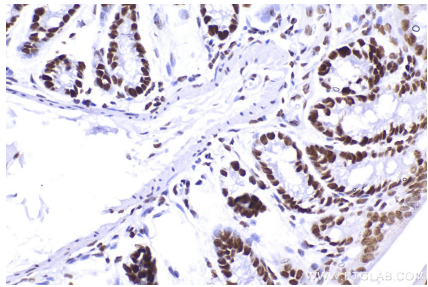
Selected Validation Data



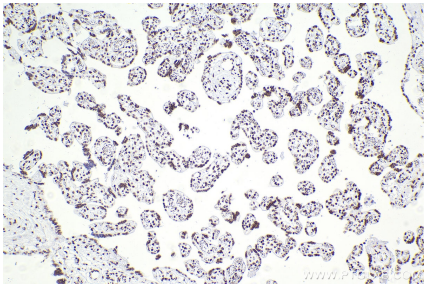
Various lysates were subjected to SDS PAGE followed by western blot with 83310-2-RR (SMARCA4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



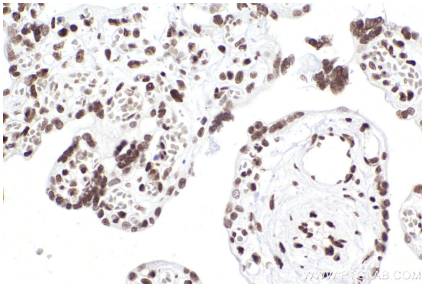
Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 83310-2-RR (SMARCA4 antibody) at dilution of 1:8000 (under 10x lens). Heat mediated antigen retrieval with .



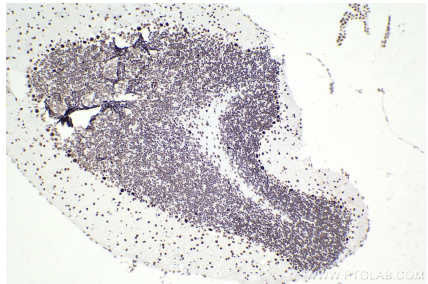
Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 83310-2-RR (SMARCA4 antibody) at dilution of 1:8000 (under 40x lens). Heat mediated antigen retrieval with .



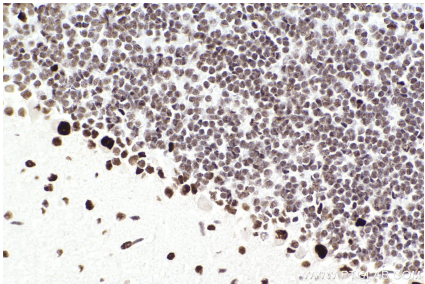
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 83310-2-RR (SMARCA4 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



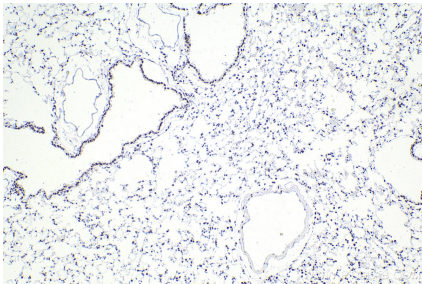
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 83310-2-RR (SMARCA4 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



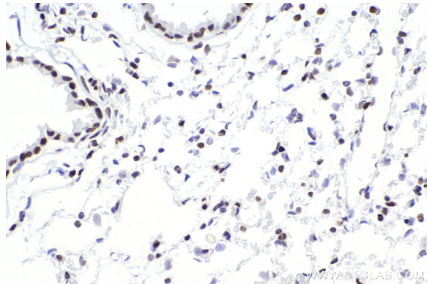
Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 83310-2-RR (SMARCA4 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



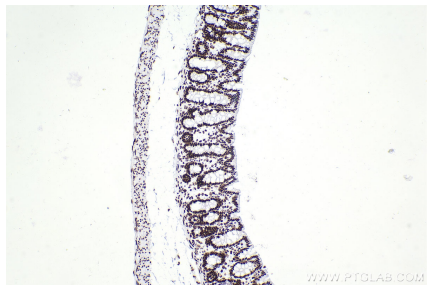
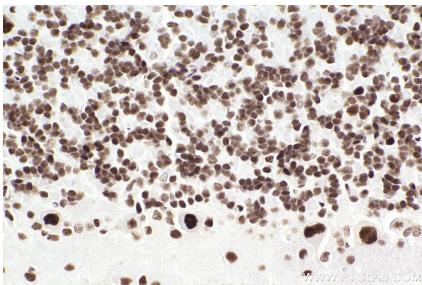
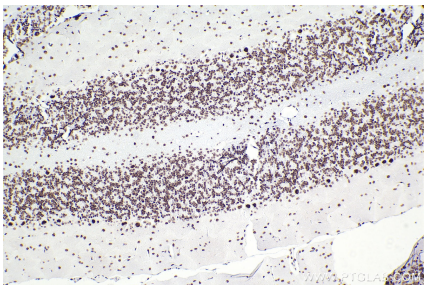
Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 83310-2-RR (SMARCA4 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



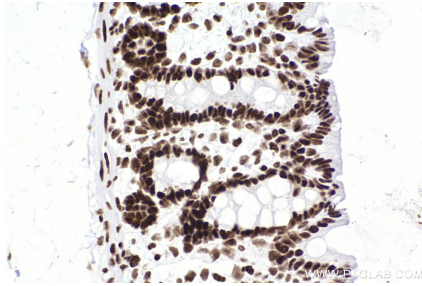
Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 83310-2-RR (SMARCA4 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 83310-2-RR (SMARCA4 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

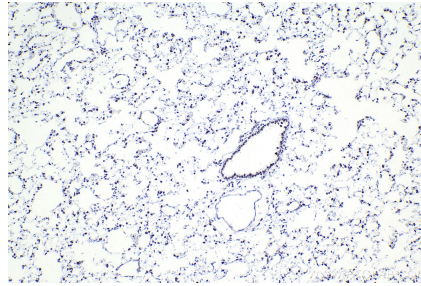


Immunohistochemical analysis of paraffin-embedded rat cerebellum tissue slide using 83310-2-RR (SMARCA4 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



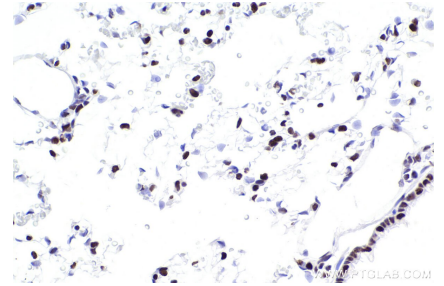
Immunohistochemical analysis of paraffin-embedded rat colon tissue slide using 83310-2-RR (SMARCA4 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

Immunohistochemical analysis of paraffin-embedded rat cerebellum tissue slide using 83310-2-RR (SMARCA4 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

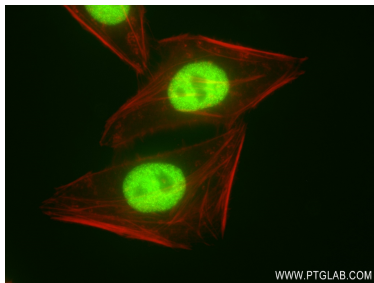


Immunohistochemical analysis of paraffin-embedded rat lung tissue slide using 83310-2-RR (SMARCA4 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

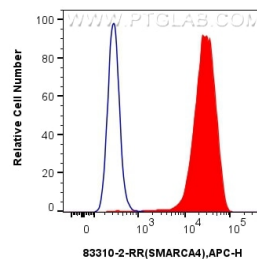
Immunohistochemical analysis of paraffin-embedded rat colon tissue slide using 83310-2-RR (SMARCA4 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



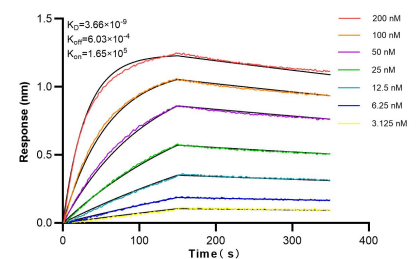
Immunohistochemical analysis of paraffin-embedded rat lung tissue slide using 83310-2-RR (SMARCA4 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using SMARCA4 antibody (83310-2-RR, Clone: 240172F4) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



1x10<sup>6</sup> Jurkat cells were intracellularly stained with 0.25 ug SMARCA4 Recombinant antibody (83310-2-RR, Clone:240172F4) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).



Biolayer interferometry (BLI) kinetic assays of 83310-2-RR against Human SMARCA4 were performed. The affinity constant is 3.66 nM.