

For Research Use Only

# SMARCA4/BRG1 Monoclonal antibody



Catalog Number: 66561-1-Ig

Featured Product

1 Publications

## Basic Information

<b>Catalog Number:</b> 66561-1-Ig	<b>GenBank Accession Number:</b> BC150298	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1700 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 6597	<b>CloneNo.:</b> 2E6B6
<b>Source:</b> Mouse	<b>Full Name:</b> SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IP 0.5-4.0 ug for IP and 1:1000-1:6000 for WB
<b>Isotype:</b> IgG2b	<b>Calculated MW:</b> 1647 aa, 185 kDa	<b>IF 1:400-1:1600</b>
<b>Immunogen Catalog Number:</b> AG16256	<b>Observed MW:</b> 185 kDa	

## Applications

### Tested Applications:

IF, IP, WB, ELISA

### Cited Applications:

IF, WB

### Species Specificity:

Human, rat

### Cited Species:

human

### Positive Controls:

**WB :** HepG2 cells, COLO 320 cells, HeLa cells, Jurkat cells, K-562 cells, HSC-T6 cells, 4T1 cells

**IP :** HeLa cells,

**IF :** HepG2 cells, PC-3 cells

## 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
C C Liu	31041569	Inflammation	WB,IF

## 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

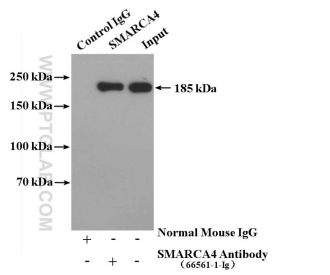
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

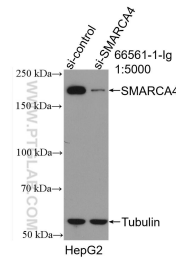
E: proteintech@ptglab.com  
W: ptglab.com

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

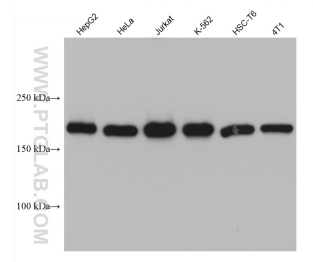
## Selected Validation Data



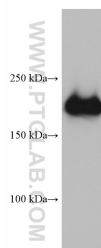
IP result of anti-SMARCA4 (IP:66561-1-Ig, 5ug; Detection:66561-1-Ig 1:3000) with HeLa cells lysate 3200 ug.



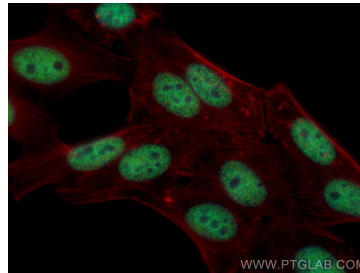
WB result of SMARCA4/BRG1 antibody (66561-1-Ig; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SMARCA4/BRG1 transfected HepG2 cells.



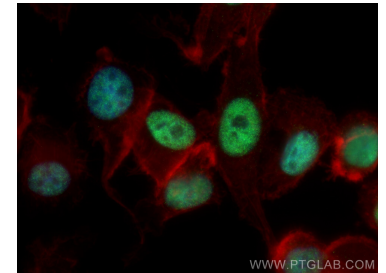
Various lysates were subjected to SDS PAGE followed by western blot with 66561-1-Ig (SMARCA4/BRG1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



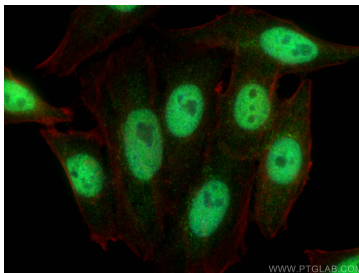
COLO 320 cells were subjected to SDS PAGE followed by western blot with 66561-1-Ig (SMARCA4/BRG1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using SMARCA4/BRG1 antibody (66561-1-Ig, Clone: 2E6B6) at dilution of 1:50000 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed PC-3 cells using SMARCA4/BRG1 antibody (66561-1-Ig, Clone: 2E6B6) at dilution of 1:50000 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using SMARCA4/BRG1 antibody (66561-1-Ig, Clone: 2E6B6) at dilution of 1:800 and CoraLite@488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).