

For Research Use Only

SMARCA4/BRG1 Monoclonal antibody



Catalog Number: 66561-1-Ig

Featured Product

1 Publications

Basic Information

Catalog Number:

66561-1-Ig

Size:

1700 µg/ml

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG16256

GenBank Accession Number:

BC150298

GeneID (NCBI):

6597

UNIPROT ID:

P51532

Full Name:

SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4

Calculated MW:

1647 aa, 185 kDa

Observed MW:

185 kDa

Purification Method:

Protein A purification

CloneNo.:

2E6B6

Recommended Dilutions:

WB 1:5000-1:50000

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

IF 1:400-1:1600

Applications

Tested Applications:

IF/ICC, IP, WB, ELISA

Cited Applications:

IF, WB

Species Specificity:

Human, rat, mouse

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

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

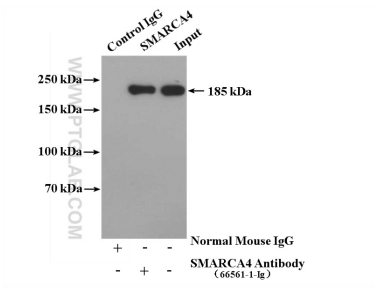
T: 4006900926

E: Proteintech-CN@ptglab.com

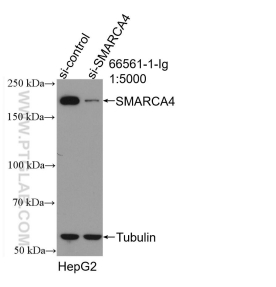
W: ptgcn.com

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

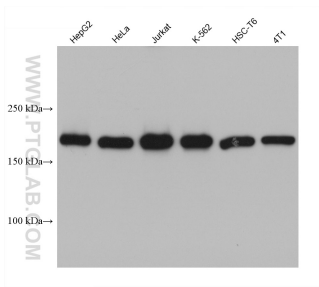
Selected Validation Data



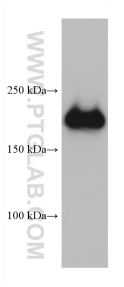
IP result of anti-SMARCA4/BRG1 (IP:66561-1-Ig, 5ug; Detection:66561-1-Ig 1:3000) with HeLa cells lysate 3200 ug.



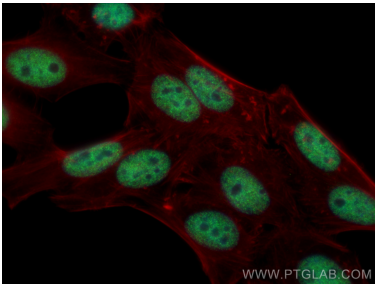
WB result of SMARCA4/BRG1 antibody (66561-1-Ig; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SMARCA4/BRG1 transfected HepG2 cells.



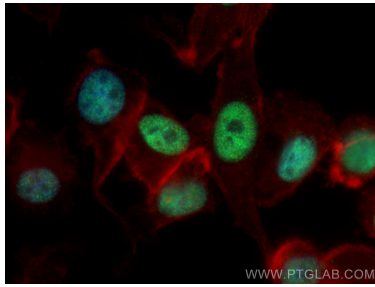
Various lysates were subjected to SDS PAGE followed by western blot with 66561-1-Ig (SMARCA4/BRG1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



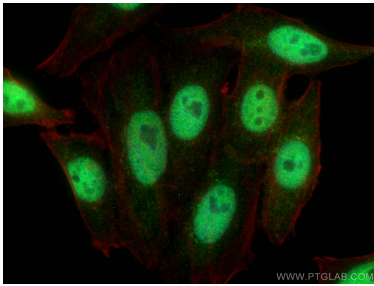
COLO 320 cells were subjected to SDS PAGE followed by western blot with 66561-1-Ig (SMARCA4/BRG1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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).