For Research Use Only

SMARCA4/BRG1 Monoclonal antibody

Catalog Number:66561-1-Ig Featured Product 2 Publications

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Basic Information

Catalog Number:
66561-1-Ig

Size:
150ul , Concentration: 1000 μg/ml by Nanodrop;

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 ug for 1.0-3.0 mg of total protein lysate
IF/ICC 1:400-1:1600

Applications

Tested Applications:
WB, IF/ICC, IP, ELISA

Cited Applications:
WB, IF, ChIP

Species Specificity:
Human, rat, mouse

Cited Species:
human, mouse

Positive Controls:

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

IP : HeLa cells,

IF/ICC : 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
Tao Ban	39726787	Front Pharmacol	ChIP

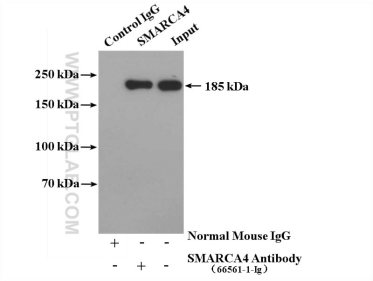
Storage

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

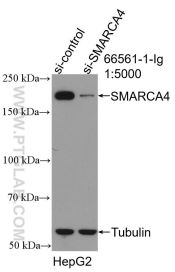
*** 20ul sizes contain 0.1% BSA

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

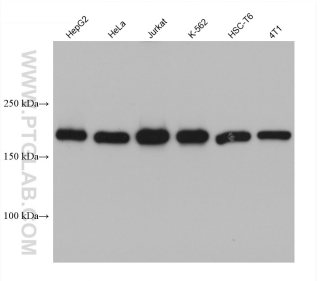
Selected Validation Data



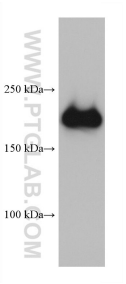
IP result of anti-SMARCA4/BRG1 (IP:66561-1-Ig, 5ug; Detection:66561-1-Ig 1:3000) with HeLa cells lysate 3200 ug.



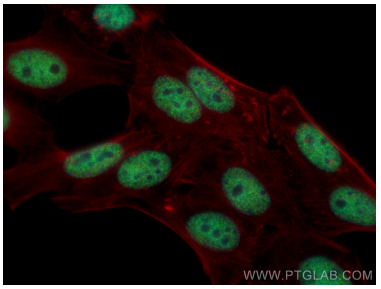
WB result of SMARCA4/BRG1 antibody (66561-1-Ig; 1:5000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SMARCA4/BRG1 transfected HepG2 cells.



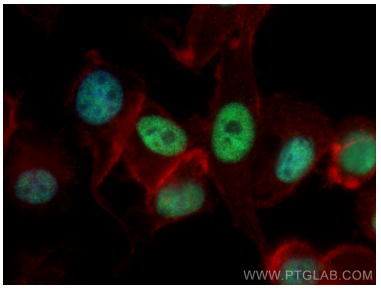
Various lysates were subjected to SDS PAGE followed by western blot with 66561-1-Ig (SMARCA4/BRG1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



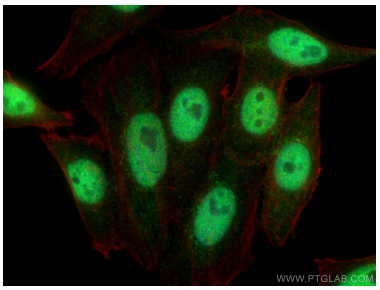
COLO 320 cells were subjected to SDS PAGE followed by western blot with 66561-1-Ig (SMARCA4/BRG1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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 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 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 Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).