For Research Use Only

SMARCA4/BRG1 Polyclonal antibody

Catalog Number:21634-1-AP Featured Product 42 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
21634-1-AP

Concentration:
550 μg/ml

Source:
Rabbit

Isotype:
IgG

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:
Antigen affinity purification

Recommended Dilutions:
WB: 1:500-1:3000
IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC: 1:200-1:800
IF/ICC: 1:300-1:1200

Applications

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

Cited Applications:
WB, IHC, IF, IP, CoIP, chIP, RIP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat, zebrafish, bovine

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HeLa cells, HepG2 cells, human placenta tissue, mouse brain tissue, rat brain tissue, MCF-7 cells, PC-3 cells

IP : HeLa cells,

IHC : human colon cancer tissue, human lung cancer tissue, mouse kidney tissue, human breast cancer tissue, human gliomas tissue

IF/ICC : HepG2 cells, HeLa cells, HEK-293 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

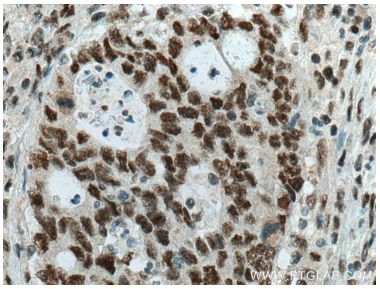
Author	Pubmed ID	Journal	Application
Shibin Hu	34534457	Mol Cell	ChIP
Mingyan Huang	30546959	Oncoimmunology	WB,chIP
Xiaodong Yan	33071648	Cancer Cell Int	IF,IHC

Storage

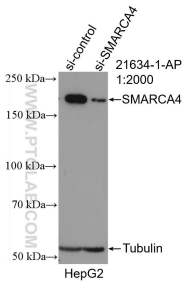
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

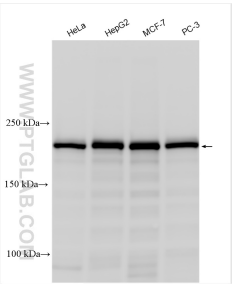
Selected Validation Data



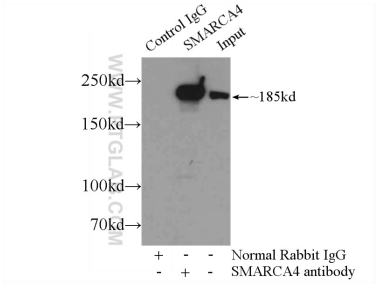
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 21634-1-AP (SMARCA4/BRG1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



WB result of SMARCA4/BRG1 antibody (21634-1-AP; 1:2000; 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 21634-1-AP (SMARCA4/BRG1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



IP result of anti-SMARCA4/BRG1 (IP:21634-1-AP, 5ug; Detection:21634-1-AP 1:1000) with HeLa cells lysate 2500ug.

Various lysates were subjected to SDS PAGE followed by western blot with 21634-1-AP (SMARCA4/BRG1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.

Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using SMARCA4/BRG1 antibody (21634-1-AP) at dilution of 1:600 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red).