For Research Use Only

SMARCA4/BRG1 Polyclonal antibody

Catalog Number:20650-1-AP Featured Product 1 Publications

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Basic Information

Catalog Number:
20650-1-AP

Size:
150ul , Concentration: 500 ug/ml by Nanodrop and 247 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
NM_001128844

GeneID (NCBI):
6597

UNIPROT ID:
P51532

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

Calculated MW:
185 kDa

Observed MW:
180 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000

Applications

Tested Applications:
WB, ELISA

Cited Applications:
WB, IF, ChIP

Species Specificity:
human, mouse, rat

Cited Species:
mouse

Positive Controls:

WB : HeLa cells, K-562 cells, HepG2 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. The antibody is specific to SMARCA4.

Notable Publications

Author	Pubmed ID	Journal	Application
Jing Li	37880339	Acta Pharmacol Sin	WB,IF,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
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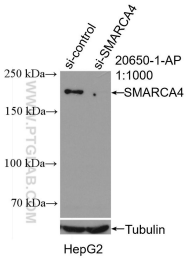
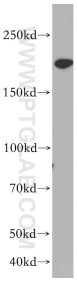
Selected Validation Data



WB result of SMARCA4/BRG1 antibody (20650-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-SMARCA4/BRG1 transfected HepG2 cells.



HeLa cells were subjected to SDS PAGE followed by western blot with 20650-1-AP (SMARCA4/BRG1 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.