

For Research Use Only

# BAF170 Polyclonal antibody

Catalog Number: 12018-1-AP

3 Publications



## Basic Information

### Catalog Number:

12018-1-AP

### Size:

150ul, Concentration: 1100 ug/ml by Nanodrop and 740 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG2634

### GenBank Accession Number:

BC013045

### GeneID (NCBI):

6601

### UNIPROT ID:

Q8TAQ2

### Full Name:

SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily c, member 2

### Calculated MW:

1214 aa, 132 kDa

### Observed MW:

170 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

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

IHC 1:20-1:200

IF/ICC 1:10-1:100

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IP

### Species Specificity:

human, mouse, rat

### Cited Species:

human

### Positive Controls:

WB: HeLa cells, A431 cells

IP: HeLa cells,

IHC: human medulloblastoma tissue,

IF/ICC: HepG2 cells,

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

## Background Information

BAF170, also named as SWI/SNF complex 170 kDa subunit or SMARCC2, is a 1214 amino acid protein, which belongs to the SMARCC family. BAF170 is ubiquitously expressed. BAF170 is involved in transcriptional activation and repression of select genes by chromatin remodeling. BAF170 may be required for CoREST dependent repression of neuronal specific gene promoters in non-neuronal cells. BAF170 belongs to the neural progenitors-specific chromatin remodeling complex (npBAF complex) and the neuron-specific chromatin remodeling complex (nBAF complex). The calculated molecular weight of BAF170, is 133 kDa, but modified BAF170 is about 170 kDa. (PMID: 8804307)

## Notable Publications

Author	Pubmed ID	Journal	Application
Shibin Hu	34534457	Mol Cell	
Zhaoran Sun	38852505	Biochem Biophys Res Commun	WB
Songbai Liu	37348029	Aging (Albany NY)	WB,IP

## 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

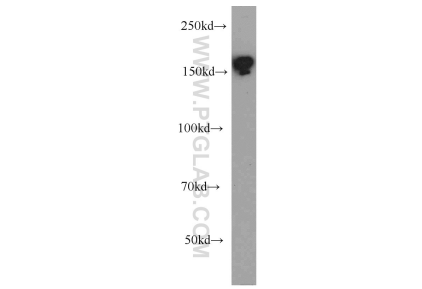
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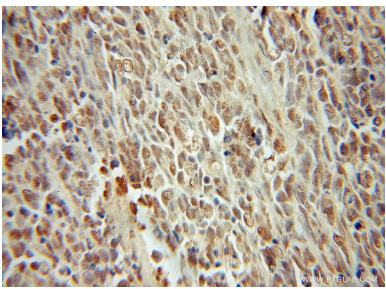
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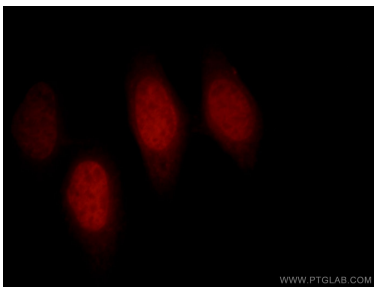
Selected Validation Data



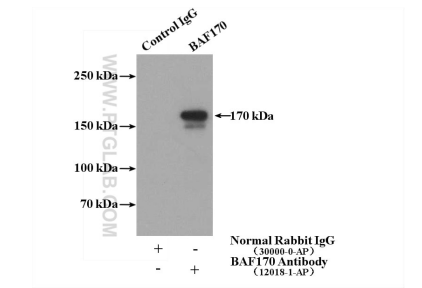
HeLa cells were subjected to SDS PAGE followed by western blot with 12018-1-AP (SMARCC2 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human medulloblastoma using 12018-1-AP (SMARCC2 antibody) at dilution of 1:50 (under 10x lens).



Immunofluorescent analysis of HepG2 cells, using SMARCC2 antibody 12018-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



IP result of anti-BAF170 (IP:12018-1-AP, 4ug; Detection:12018-1-AP 1:700) with HeLa cells lysate 3200ug.