

## SMARCA4

**Reactivity:** Human Mouse Rat

**Tested applications:** WB IHC IF IP

**Recommended Dilution:** WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:50 - 1:200 IP 1:20 - 1:50

**Calculated MW:** 185kDa

**Observed MW:** Refer to Figures

**Immunogen:**

A synthetic peptide of human SMARCA4

**Storage Buffer:**

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Concentration:**

1 mg/ml

**Synonym:**

BAF190; BRG1; FLJ39786; SNF2; SNF2-BETA; SNF2L4; SNF2LB; SWI2; hSNF2b;

**Catalog #:** A2117

**Antibody Type:**

Polyclonal Antibody

**Species:** Rabbit

**Gene ID:** 6597

**Isotype:** IgG

**Swiss Prot:** P51532

**Purity:** Affinity purification

For research use only.

**Background:**

The modulation of chromatin structure is an essential component in the regulation of transcriptional activation and repression. Modifications can be made by at least two evolutionarily conserved strategies, through the disruption of histone-DNA contacts by ATP-dependent chromatin remodelers, or by histone tail modifications including methylation and acetylation. One of the four classes of ATP-dependent histone remodelers is the SWI/SNF complex, the central catalytic subunit of which is Brg1 or the highly related protein hBRM (1). This SWI/SNF complex contains varying subunits but its association with either Brg1 or hBRM remains constant (1). SWI/SNF complexes have been shown to regulate gene activation, cell growth, the cell cycle and differentiation (1). Brg1/hBRM have been shown to regulate transcription through enhancing transcriptional activation of glucocorticoid receptors (2). Although usually associated with transcriptional activation, Brg1/hBRM have also been found in complexes associated with transcriptional repression including with HDACs, Rb and Tif1 (3-5). Brg1/hBRM plays a vital role in the regulation of gene transcription during early mammalian embryogenesis. In addition, Brg1/hBRM also play a role as tumor suppressors and Brg1 is mutated in several tumor cell lines (6-8).

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