



SMARCA4 Polyclonal Antibody

E92117

Catalog Number: E92117**Amount:** 100ul

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 β (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 a tumor suppressors and Brg1 is mutated in several tumor cell lines (6-8).

Species: Rabbit**Isotype:** IgG

Storage/Stability: Store at -20oC or -80oC. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

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

Immunogen: A synthetic peptide of human SMARCA4

Purification: Affinity purification

Reactivity: H M R

Applications: WB IHC

Molecular Weight: 185kDa

Swiss-Prot No.: P51532

Gene ID: 6597

References: 1. Trotter, K.W. and Archer, T.K. (2008) Nucl Recept Signal 6, e004. 2. Trotter, K.W. and Archer, T.K. (2007) Mol Cell Endocrinol 265-266, 162-7. 3. Sif, S. et al. (2001) Genes Dev 15, 603-18. 4. Zhang, H.S. et al. (2000) Cell 101, 79-89. 5. Underhill, C. et al. (2000) J Biol Chem 275, 40463-70. 6. Magnani, L. and Cabot, R.A. (2009) Reproduction 137, 23-33. 7. Medina, P.P. et al. Epigenetics 3, 64-8. 8. Medina, P.P. et al. (2008) Hum Mutat 29, 617-22.

