SunLong Biotech Co.,LTD
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**[ Primary Antibody ]**

# Rabbit Anti-SMARCA2 antibody

**Catalog Number: SL6402R**

**FOR RESEARCH USE ONLY**

**[ DATASHEET ]**

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| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Target:** | SMARCA2 |
| **Immunogen:** | KLH conjugated synthetic peptide derived from human SMARCA2/BRM: 1401-1590/1590 |
| **Purification:** | affinity purified by Protein A |
| **Concentration:** | 1mg/ml |
| **Storage:** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. |
| **Applications:** | IHC-P=1:100-500<br>IHC-F=1:100-500<br>IF=1:100-500 （Paraffin sections need antigen repair）<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Reactivity:** | Rat(predicted:Human,Mouse,Dog,Pig,Cow,Horse,Rabbit) |
| **Predicted MW.:** | 230kDa |
| **Subcellular Location:** | The nucleus |
| **Background:** | A transcriptional coactivator cooperating with nuclear hormone receptors to potentiate transcriptional activation. SMARCA2 / BRM belongs to the SNF2/RAD54 helicase family, is a homologue of the Saccharomyces cerevisiae SWI2/SNF2 and Drosophila brahma proteins. It contains a methyl lysine containing bromo domain and an HSA domain.<br>The yeast protein SNF2, also known as SWI2, is involved in transcriptional activation of numerous genes. It contains a domain that is highly conserved among several known helicases and is required for transcriptional activity. SNF2/SWI2 is highly homologous to the Drosophila protein 'brahma' (brm). Although the 2 proteins show nuclear localization during interphase, they are excluded from the condensed chromosomes during mitosis. They found that the level of BRM, but not BRG1, was strongly reduced during mitosis. |

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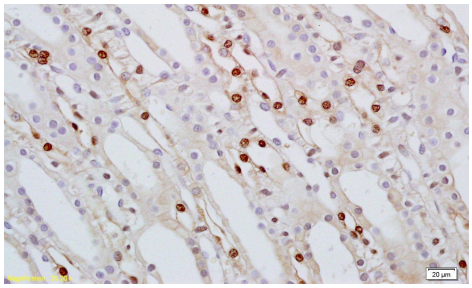
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| | Phosphorylation of hbrm and BRG1 did not disrupt their association with SNF5 but correlated with a decreased affinity for the nuclear structure in early M phase.<br>**Function:** Transcriptional coactivator cooperating with nuclear hormone receptors to potentiate transcriptional activation. 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. Belongs to the neural progenitors-specific chromatin remodeling complex (npBAF complex) and the neuron-specific chromatin remodeling complex (nBAF complex).<br>During neural development a switch from a stem/progenitor to a post-mitotic chromatin remodeling mechanism occurs as neurons exit the cell cycle and become committed to their adult state. The transition from proliferating neural stem/progenitor cells to post-mitotic neurons requires a switch in subunit composition of the npBAF and nBAF complexes. As neural progenitors exit mitosis and differentiate into neurons, npBAF complexes which contain ACTL6A/BAF53A and PHF10/BAF45A, are exchanged for homologous alternative ACTL6B/BAF53B and DPF1/BAF45B or DPF3/BAF45C subunits in neuron-specific complexes (nBAF).<br>The npBAF complex is essential for the self-renewal/proliferative capacity of the multipotent neural stem cells. The nBAF complex along with CREST plays a role regulating the activity of genes essential for dendrite growth (By similarity).<br>**Subunit:** Component of the BAF complex.<br>**Subcellular Location:** Nucleus.<br>**Post-translational modifications:** Phosphorylated upon DNA damage, probably by ATM or ATR.<br>**Similarity:** Belongs to the SNF2/RAD54 helicase family.<br>Contains 1 bromo domain.<br>Contains 1 helicase ATP-binding domain.<br>Contains 1 helicase C-terminal domain.<br>Contains 1 HSA domain.<br>**Database links:**<br>**Entrez Gene:** 6595 Human<br>**Entrez Gene:** 67155 Mouse<br>**Entrez Gene:** 361745 Rat<br>Omim: 600014 Human<br>**SwissProt:** P51531 Human<br>**SwissProt:** Q6DIC0 Mouse |

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| | **Unigene:** 298990 Human<br>**Unigene:** 644901 Human<br>**Unigene:** 491146 Mouse |

## [ VALIDATION IMAGES ]



Tissue/cell: rat kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer ( 1M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-SMARCA2/BRM Polyclonal Antibody, Unconjugated(SL6402R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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