

## Rabbit anti-Human, Mouse SMARCA4 Polyclonal Antibody | anti-SMARCA4 antibody

SMARCA4 Polyclonal Antibody

| CATALOG # | HOST   | REACTIVITY   | APPLICATIONS                                                                |
|-----------|--------|--------------|-----------------------------------------------------------------------------|
| AAA37164  | Rabbit | Human, Mouse | Immunoprecipitation, Immunofluorescence, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

SMARCA4; Polyclonal Antibody; SMARCA4 Polyclonal Antibody; BAF190; BRG1; FLJ39786; SNF2; SNF2-BETA; SNF2L4; SNF2LB; SWI2; hSNF2b; anti-SMARCA4 antibody

### PRODUCT SPECIFICATIONS

|                                                   |                                                                                                                                                       |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                              | Rabbit                                                                                                                                                |
| Reactivity                                        | Human, Mouse                                                                                                                                          |
| Clonality                                         | Polyclonal                                                                                                                                            |
| Isotype                                           | IgG                                                                                                                                                   |
| Purity/Purification                               | Affinity Purification                                                                                                                                 |
| Concentration                                     | 1mg/ml (varies by lot)                                                                                                                                |
| Sequence Length                                   | 1647                                                                                                                                                  |
| Applicable Applications for anti-SMARCA4 antibody | IP (Immunoprecipitation), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)                                                      |
| Species                                           | Human                                                                                                                                                 |
| Route                                             | Synthetic Peptide                                                                                                                                     |
| Immunogen                                         | A synthetic peptide of human SMARCA4                                                                                                                  |
| Calculated Molecular Weight                       | 185kDa                                                                                                                                                |
| Preparation and Storage                           | Store at -20 degree C (regular) or -80 degree C (long term). Avoid freeze / thaw cycles.<br>Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3. |

### IMAGES



#### IF (Immunofluorescence)

Immunofluorescence analysis of A549 cells using SMARCA4 antibody. Blue: DAPI for nuclear staining.



#### WB (Western Blot)

Western blot analysis of extracts of various cell lines, using SMARCA4 antibody at 1:500 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST.

ADDITIONAL INFORMATION

|                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-SMARCA4 antibody | 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 Tif1beta (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). |
| Product Categories/Family for anti-SMARCA4 antibody   | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 116242792                                                                                                                                                                                                                                                                                                                                                                               |
| NCBI GeneID                      | 6597                                                                                                                                                                                                                                                                                                                                                                                    |
| UniProt Accession #              | P51532; O95052; Q9HBD3; B1A8Z4; B1A8Z5; B1A8Z6; B1A8Z7; E9PBR8                                                                                                                                                                                                                                                                                                                          |
| Molecular Weight                 | 1647                                                                                                                                                                                                                                                                                                                                                                                    |
| NCBI Official Full Name          | Transcription activator BRG1                                                                                                                                                                                                                                                                                                                                                            |
| NCBI Official Synonym Full Names | SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4                                                                                                                                                                                                                                                                                       |
| NCBI Official Symbol             | SMARCA4                                                                                                                                                                                                                                                                                                                                                                                 |
| NCBI Official Synonym Symbols    | BRG1; SNF2; SWI2; MRD16; RTPS2; BAF190; SNF2L4; SNF2LB; hSNF2b; BAF190A                                                                                                                                                                                                                                                                                                                 |
| NCBI Protein Information         | transcription activator BRG1; SNF2-beta; SNF2-like 4; protein BRG-1; nuclear protein GRB1; brahma protein-like 1; BRM/SWI2-related gene 1; homeotic gene regulator; protein brahma homolog 1; BRG1-associated factor 190A; sucrose nonfermenting-like 4; ATP-dependent helicase SMARCA4; mitotic growth and transcription activator; global transcription activator homologous sequence |
| UniProt Protein Name             | Transcription activator BRG1                                                                                                                                                                                                                                                                                                                                                            |
| UniProt Gene Name                | SMARCA4                                                                                                                                                                                                                                                                                                                                                                                 |
| UniProt Synonym Gene Names       | BAF190A; BRG1; SNF2B; SNF2L4; BAF190A                                                                                                                                                                                                                                                                                                                                                   |
| UniProt Entry Name               | SMCA4_HUMAN                                                                                                                                                                                                                                                                                                                                                                             |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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