

## Rat SMARCA4 Monoclonal Antibody | anti-SMARCA4 antibody

SMARCA4 antibody (mAb)(Clone 5B7)

| CATALOG # | HOST | REACTIVITY           | APPLICATIONS                                          |
|-----------|------|----------------------|-------------------------------------------------------|
| AAA60060  | Rat  | Human, Monkey, Mouse | Western Blot, Immunofluorescence, Immunocytochemistry |

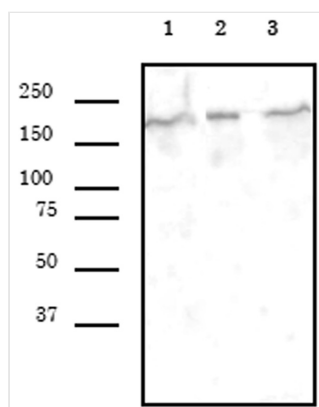
### PRODUCT SYNONYMS

SMARCA4; Monoclonal Antibody; SMARCA4 antibody (mAb)(Clone 5B7); BRG1; SNF2; SWI2; MRD16; RTPS2; BAF190; SNF2L4; SNF2LB; hSNF2b; BAF190A; anti-SMARCA4 antibody

### PRODUCT SPECIFICATIONS

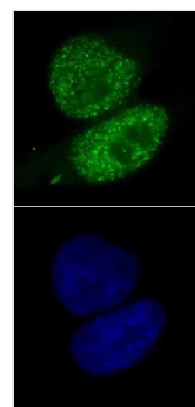
|                                                   |                                                                                                                                                                                                                                                                                           |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                              | Rat                                                                                                                                                                                                                                                                                       |
| Reactivity                                        | Human, Monkey, Mouse                                                                                                                                                                                                                                                                      |
| Clonality                                         | Monoclonal                                                                                                                                                                                                                                                                                |
| Isotype                                           | IgG2a                                                                                                                                                                                                                                                                                     |
| Clone Number                                      | 5B7                                                                                                                                                                                                                                                                                       |
| Purity/Purification                               | Protein G Chromatography                                                                                                                                                                                                                                                                  |
| Form/Format                                       | Purified IgG in PBS with 30% glycerol and 0.035% sodium azide. Sodium azide is highly toxic.                                                                                                                                                                                              |
| Concentration                                     | 1ug/ul (varies by lot)                                                                                                                                                                                                                                                                    |
| Applicable Applications for anti-SMARCA4 antibody | WB (Western Blot), IF (Immunofluorescence), ICC (Immunocytochemistry)                                                                                                                                                                                                                     |
| Immunogen                                         | This antibody was raised against a recombinant protein corresponding to amino acids 213-295 of human SMARCA4.                                                                                                                                                                             |
| Preparation and Storage                           | Some products may be shipped at room temperature. This will not affect their stability or performance. Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20 degree C for up to 2 years. Keep all reagents on ice when not in storage.1ug/ul |

### IMAGES



#### WB (Western Blot)

SMARCA4 antibody (mAb) (Clone 5B7) tested by Western blot. Whole cell extracts were probed with SMARCA4 antibody (mAb). Lane 1: L929 cells. Lane 2: HeLa cells. Lane 3: Cos cells



#### IF (Immunofluorescence)

SMARCA4 antibody (mAb) (Clone 5B7) tested by immunofluorescence. Top: HeLa cells stained with SMARCA4 antibody (mAb). Bottom: Hoechst staining.

ADDITIONAL INFORMATION

|                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-SMARCA4 antibody | <p>Short Description: Our SMARCA4 antibody (mAb)(Clone 5B7) was raised in a Rat host. It has been validated for use in Immunocytochemistry, Immunofluorescence and Western blot; it has been shown to react with Human, Monkey and Mouse samples.</p> <p>Background: SMARCA4 (SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4) is the central catalytic ATPase subunit of numerous chromatin-remodeling complexes, including SWI/SNF. These complexes are able to use energy from ATP hydrolysis to physically disrupt chromatin architecture of target promoters and facilitate the binding of transcription factors to nucleosomal DNA. SMARCA4 is a co-regulator of transcription and has been implicated in the activation and repression of gene expression through the modulation of chromatin in various tissues and physiological conditions. This protein plays a major role in many cellular processes such as DNA replication, repair and recombination. Mammalian SMARCA4 is usually associated with approximately 10-12 BAF subunits or other proteins involved in regulation of gene expression. SMARCA4 is part of the stem cell-specific BAF complex, esBAF, and is involved in regulating stem cell pluripotency.</p> |
| Product Categories/Family for anti-SMARCA4 antibody   | Primary Antibodies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                                                 |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 192807323                                                                                                                                                                                                                                                       |
| NCBI GeneID                      | 6597                                                                                                                                                                                                                                                            |
| NCBI Accession #                 | NP_001122321; AB_2793708                                                                                                                                                                                                                                        |
| NCBI GenBank Nucleotide #        | NM_001128849.1                                                                                                                                                                                                                                                  |
| UniProt Accession #              | P51532; O95052; Q9HBD3; B1A8Z4; B1A8Z5; B1A8Z6; B1A8Z7; E9PBR8                                                                                                                                                                                                  |
| Molecular Weight                 | <p>Predicted: 185 kDa</p> <p>Observed: 200 kDa</p>                                                                                                                                                                                                              |
| NCBI Official Full Name          | transcription activator BRG1 isoform A                                                                                                                                                                                                                          |
| 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-de |
| 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.