

# SMARCC1 Rabbit mAb

Catalog # AP77962

## Product Information

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|-------------------|---------------------------------------------------------|
| Application       | WB, IF, FC, ICC, IP                                     |
| Primary Accession | <a href="#">Q92922</a>                                  |
| Reactivity        | Rat, Human                                              |
| Host              | Rabbit                                                  |
| Clonality         | Monoclonal Antibody                                     |
| Isotype           | IgG                                                     |
| Conjugate         | Unconjugated                                            |
| Immunogen         | A synthesized peptide derived from human SMARCC1/BAF155 |
| Purification      | Affinity Chromatography                                 |
| Calculated MW     | 122867                                                  |

## Additional Information

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|-------------|----------------------------------------------------------------------------------------------------|
| Gene ID     | 6599                                                                                               |
| Other Names | SMARCC1                                                                                            |
| Dilution    | WB~~1/500-1/1000 IF~~1:50~200 FC~~1:10~50 ICC~~N/A IP~~N/A                                         |
| Format      | Liquid in 10mM PBS, pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol. |
| Storage     | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.           |

## Protein Information

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|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name     | SMARCC1 ( <a href="#">HGNC:11104</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Synonyms | BAF155                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Function | Involved in transcriptional activation and repression of select genes by chromatin remodeling (alteration of DNA-nucleosome topology). Component of SWI/SNF chromatin remodeling complexes that carry out key enzymatic activities, changing chromatin structure by altering DNA-histone contacts within a nucleosome in an ATP-dependent manner. May stimulate the ATPase activity of the catalytic subunit of the complex (PubMed: <a href="#">10078207</a> , PubMed: <a href="#">29374058</a> ). Belongs to the neural progenitors-specific chromatin remodeling complex (npBAF complex) and the neuron-specific chromatin remodeling complex (nBAF complex). During neural development a switch from a stem/progenitor to a postmitotic 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 |

postmitotic 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). 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).

**Cellular Location**

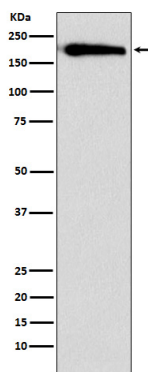
Nucleus. Cytoplasm

**Tissue Location**

Expressed in brain, heart, muscle, placenta, lung, liver, muscle, kidney and pancreas

## Images

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.