

# Anti-SMARCC1 Antibody (2A4-H7-C12)

Mouse Monoclonal Antibody Catalog # ABV12046

#### **Product Information**

**Application** WB **Primary Accession** 092922 Reactivity Human Host Mouse Clonality Monoclonal Isotype Mouse IgG1 **Clone Names** 2A4-H7-C12 **Calculated MW** 122867

### **Additional Information**

**Gene ID** 6599

**Application & Usage** 

Other Names

WB: K562, Jurkat and HeLa cell lysates

BRG1-associated factor 155, BAF155, SWI/SNF complex 155 kDa subunit, SWI/SNF-related matrix-associated actin-dependent regulator of chromatin

subfamily C member 1

Target/Specificity SMARCC1

Antibody Form Liquid

**Appearance** Colorless liquid

**Formulation** In PBS (pH 7.4) containing with 0.02% sodium azide and 50% glycerol

**Handling** The antibody solution should be gently mixed before use.

Reconstitution & Storage -20 °C

**Background Descriptions** 

Precautions

Anti-SMARCC1 Antibody (2A4-H7-C12) is for research use only and not for use

in diagnostic or therapeutic procedures.

### **Protein Information**

Name SMARCC1 ( HGNC:11104)

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:10078207, PubMed:29374058). 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

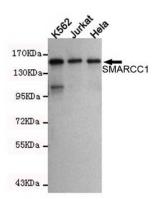
**Tissue Location** Expressed in brain, heart, muscle, placenta, lung, liver, muscle, kidney and

pancreas

## **Background**

Involved in transcriptional activation and repression of select genes by chromatin remodeling (alteration of DNA-nucleosome topology). May stimulate the ATPase activity of the catalytic subunit of the complex. 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.

## **Images**



Western blot detection of SMARCC1 in K562, Jurkatand HeLa cell lysates using SMARCC1 mouse mAb

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