

**SMARCC1 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP5097a**

**Specification**

**SMARCC1 Antibody (N-term) - Product Information**

Application	WB, IHC-P, FC,E
Primary Accession	<a href="#">092922</a>
Other Accession	<a href="#">P97496</a>
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Antigen Region	268-297

**SMARCC1 Antibody (N-term) - Additional Information**

**Gene ID** 6599

**Other Names**

SWI/SNF complex subunit SMARCC1,  
 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, SMARCC1, BAF155

**Target/Specificity**

This SMARCC1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 268-297 amino acids from the N-terminal region of human SMARCC1.

**Dilution**

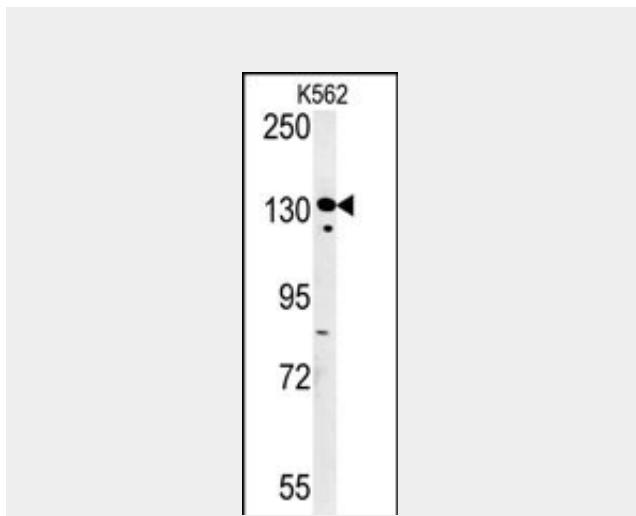
WB~~1:1000  
 IHC-P~~1:50~100  
 FC~~1:10~50

**Format**

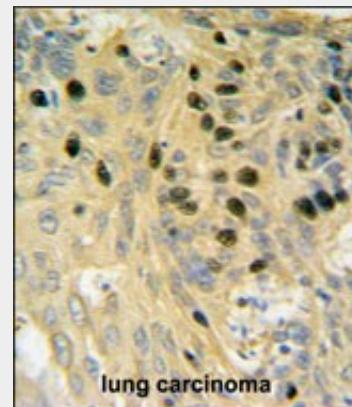
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2



Western blot analysis of SMARCC1 Antibody (N-term) (Cat. #AP5097a) in K562 cell line lysates (35ug/lane). SMARCC1 (arrow) was detected using the purified Pab.



SMARCC1 Antibody (N-term) (Cat. #AP5097a) IHC analysis in formalin fixed and paraffin embedded lung carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the SMARCC1 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

### Precautions

SMARCC1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

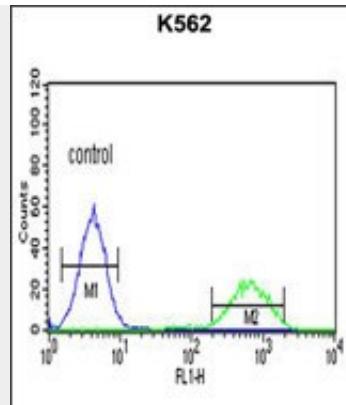
#### SMARCC1 Antibody (N-term) - Protein Information

**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:<a href="http://www.uniprot.org/citations/10078207" target="\_blank">10078207</a>, PubMed:<a href="http://www.uniprot.org/citations/29374058" target="\_blank">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



SMARCC1 Antibody (N-term) (Cat. #AP5097a) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

#### SMARCC1 Antibody (N-term) - Background

SMARCC1 is a member of the SWI/SNF family of proteins, whose members display helicase and ATPase activities and which are thought to regulate transcription of certain genes by altering the chromatin structure around those genes. The encoded protein is part of the large ATP-dependent chromatin remodeling complex SNF/SWI and contains a predicted leucine zipper motif typical of many transcription factors.

#### SMARCC1 Antibody (N-term) - References

- So, H.C., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 153B (1), 103-113 (2010)
- Andersen, C.L., et al. Br. J. Cancer 100(3):511-523(2009)
- Heeboll, S., et al. Histol. Histopathol. 23(9):1069-1076(2008)

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

**SMARCC1 Antibody (N-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**SMARCC1 Antibody (N-term) - Citations**

- [SWI/SNF factors required for cellular resistance to DNA damage include ARID1A and ARID1B and show interdependent protein stability.](#)