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SMARCC1 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP5097a

Specification

SMARCC1 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q92922

SMARCC1 Antibody (N-term) Blocking Peptide - 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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SMARCC1 Antibody (N-term) Blocking Peptide - 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

SMARCC1 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

SMARCC1 Antibody (N-term) Blocking Peptide - Images

SMARCC1 Antibody (N-term) Blocking Peptide - 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) Blocking Peptide - 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)