



SMARCC2 Antibody

Product Code	CSB-PA586622
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q8TAQ2
Immunogen	Synthesized peptide derived from internal of Human SMRC2.
Raised In	Rabbit
Species Reactivity	Human,Mouse
Specificity	The antibody detects endogenous levels of total SMRC2 protein.
Tested Applications	ELISA,WB;WB:1:500-1:3000
Relevance	Involved in transcriptional activation and repression of select genes by chromatin remodeling (alteration of DNA-nucleosome topology). Can stimulate the ATPase activity of the catalytic subunit of these complexes. May be required for CoREST dependent repression of neuronal specific gene promoters in non-neuronal cells. Also involved in vitamin D-coupled transcription regulation via its association with the WINAC complex, a chromatin-remodeling complex recruited by vitamin D receptor (VDR), which is required for the ligand-bound VDR-mediated transrepression of the CYP27B1 gene. 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 post-mitotic 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 post-mitotic 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. Wang W., Genes Dev. 10:2117-2130(1996). Kim J.-E., J. Proteome Res. 4:1339-1346(2005). Olsen J.V., Cell 127:635-648(2006).
Form	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal



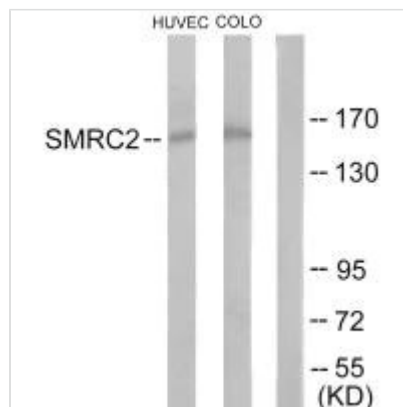
Alias SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily C member 2; SWI/SNF complex 170 kDa subunit; BRG1-associated factor 170; BAF170; SMARCC2

Product Type Polyclonal Antibody

Species Homo sapiens (Human)

Target Names SMARCC2

Image



Western blot analysis of extracts from HUVEC cells and COLO205 cells, using SMRC2 antibody.