

Datasheet for ABIN7171057
anti-SMARCC2 antibody (AA 300-650)[Go to Product page](#)

3 Images

Overview

Quantity:	100 µL
Target:	SMARCC2
Binding Specificity:	AA 300-650
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SMARCC2 antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC), Chromatin Immunoprecipitation (ChIP)

Product Details

Immunogen:	Recombinant Human SWI/SNF complex subunit SMARCC2 protein (300-650AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Antigen Affinity Purified

Target Details

Target:	SMARCC2
Alternative Name:	SMARCC2 (SMARCC2 Products)
Background:	Background: Involved in transcriptional activation and repression of select genes by chromatin remodeling (alteration of DNA-nucleosome topology). Can stimulate the ATPase activity of the

Target Details

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

Aliases: BAF 170 antibody, BAF170 antibody, BRG1 associated factor 170 antibody, BRG1-associated factor 170 antibody, Chromatin remodeling complex BAF170 subunit antibody, CRACC 2 antibody, CRACC2 antibody, Mammalian chromatin remodeling complex BRG1 associated factor 170 antibody, Rsc 8 antibody, Rsc8 antibody, SMARCC 2 antibody, Smarcc2 antibody, SMRC2_HUMAN antibody, SWI/SNF complex 170 kDa subunit antibody, SWI/SNF complex subunit SMARCC2 antibody, SWI/SNF related matrix associated actin dependent regulator of chromatin c2 antibody, SWI/SNF related matrix associated actin dependent regulator of chromatin subfamily c member 2 antibody, SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily C member 2 antibody, SWI3 like protein antibody

UniProt: [Q8TAQ2](#)

Application Details

Application Notes: Recommended dilution: IHC:1:20-1:200,

Restrictions: For Research Use only

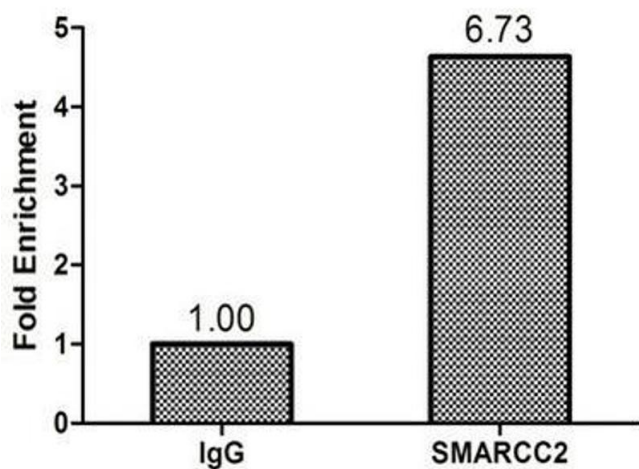
Handling

Format: Liquid

Handling

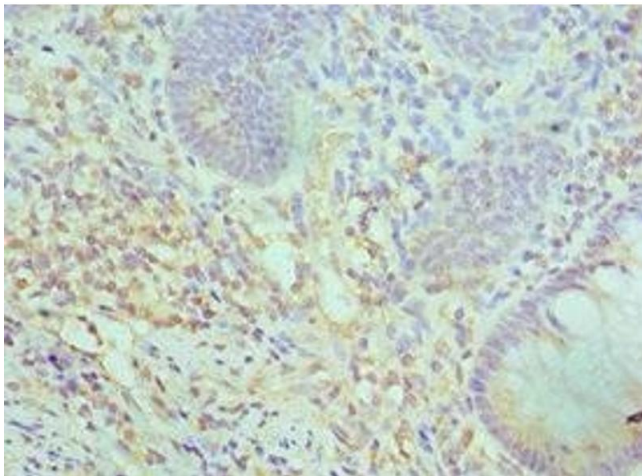
Buffer:	PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



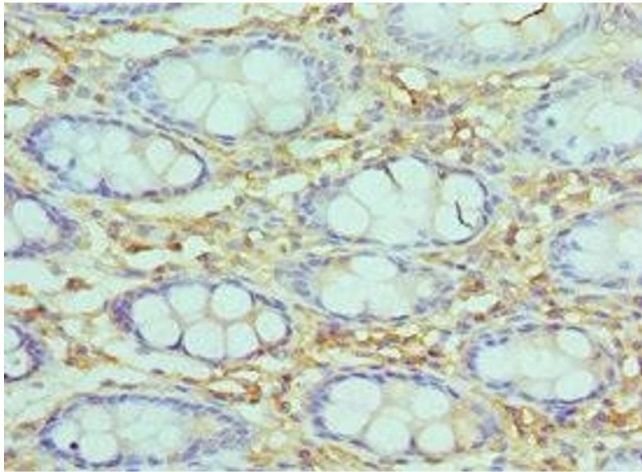
Immunohistochemistry

Image 1. Chromatin Immunoprecipitation Hela (1.1×10^6) were cross-linked with formaldehyde, sonicated, and immunoprecipitated with 4 μ g anti-SMARCC2 or a control normal rabbit IgG. The resulting ChIP DNA was quantified using real-time PCR with primers against the ESR1 pS2 promoter.



Immunohistochemistry

Image 2. Immunohistochemistry of paraffin-embedded human colon cancer using ABIN7171057 at dilution of 1:100



Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded human epityphlon tissue using ABIN7171057 at dilution of 1:100