

Datasheet for ABIN7171070
anti-SMARCB1 antibody (AA 86-385)

3 Images

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Overview

Quantity:	100 µL
Target:	SMARCB1
Binding Specificity:	AA 86-385
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SMARCB1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Immunogen:	Recombinant Human SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily B member 1 protein (86-385AA)
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Purification:	Antigen Affinity Purified

Target Details

Target:	SMARCB1
Alternative Name:	SMARCB1 (SMARCB1 Products)
Background:	Background: Core component of the BAF (hSWI/SNF) complex. This ATP-dependent

chromatin-remodeling complex plays important roles in cell proliferation and differentiation, in cellular antiviral activities and inhibition of tumor formation. The BAF complex is able to create a stable, altered form of chromatin that constrains fewer negative supercoils than normal. This change in supercoiling would be due to the conversion of up to one-half of the nucleosomes on polynucleosomal arrays into asymmetric structures, termed altosomes, each composed of 2 histones octamers. Stimulates in vitro the remodeling activity of SMARCA4/BRG1/BAF190A. Involved in activation of CSF1 promoter. 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). Plays a key role in cell-cycle control and causes cell cycle arrest in G0/G1. 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.

Aliases: BAF47 antibody, BRG1-associated factor 47 antibody, hSNF5 antibody, INI1 antibody, Integrase interactor 1 protein antibody, Malignant rhabdoid tumor suppressor antibody, RDT antibody, RTPS1 antibody, Sfh1p antibody, SMARCB1 antibody, SNF5 homolog antibody, SNF5_HUMAN antibody, SNF5L1 antibody, Snr1 antibody, Sucrose nonfermenting yeast homolog like 1 antibody, SWI/SNF complex component SNF5 antibody, SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily B member 1 antibody, SWI10 antibody, Transcription factor TYE4 antibody, Transcription regulatory protein SNF5 antibody, TYE4 antibody

UniProt: [Q12824](#)

Application Details

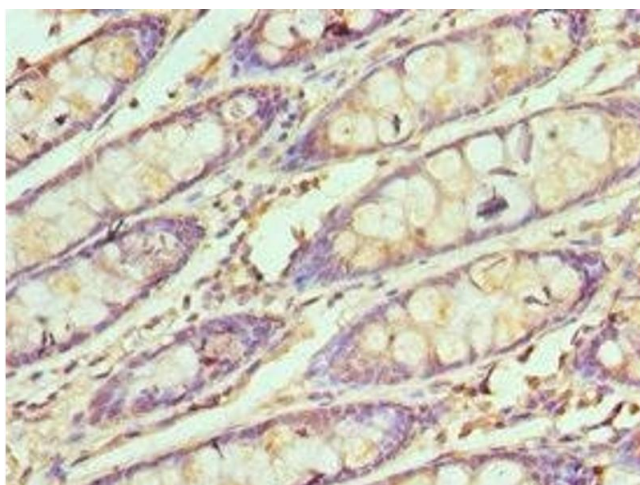
Application Notes: Recommended dilution: WB:1:500-1:2000, IHC:1:20-1:200,

Restrictions: For Research Use only

Handling

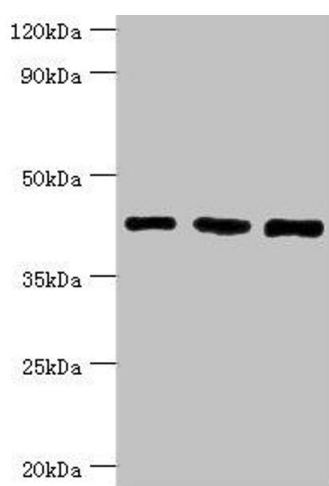
Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store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

Images



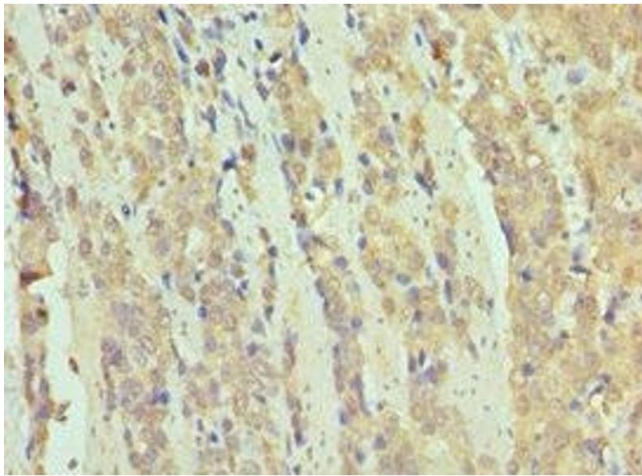
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human colon tissue using ABIN7171070 at dilution of 1:100



Western Blotting

Image 2. Western blot All lanes: SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily B member 1 antibody at 8 µg/mL Lane 1: Hela whole cell lysate Lane 2: 293T whole cell lysate Lane 3: Mouse stomach tissue Secondary Goat polyclonal to rabbit IgG at 1/10000 dilution Predicted band size: 45, 44 kDa Observed band size: 45 kDa



Immunohistochemistry

Image 3. Immunohistochemistry of paraffin-embedded human colon cancer using ABIN7171070 at dilution of 1:100