antibodies

## Datasheet for ABIN4986570 SMARCB1 Protein (AA 2-376, partial) (His tag)



Overview

Image

| Quantity:                     | 100 µg   |  |
|-------------------------------|--|--|
| Target:                       | SMARCB1  |  |
| Protein Characteristics:      | AA 2-376, partial                              |  |
| Origin:                       | Human  |  |
| Source:                       | Baculovirus infected Insect Cells              |  |
| Protein Type:                 | Recombinant                                    |  |
| Purification tag / Conjugate: | This SMARCB1 protein is labelled with His tag. |  |
| Application:                  | SDS-PAGE (SDS)                                 |  |

## Product Details

| Sequence:     | MMMALSKTFG QKPVKFQLED DGEFYMIGSE VGNYLRMFRG SLYKRYPSLW RRLATVEERK |
|---------------|---|
|               | KIVASSHGKK TKPNTKDHGY TTLATSVTLL KASEVEEILD GNDEKYKAVS ISTEPPTYLR |
|               | EQKAKRNSQW VPTLPNSSHH LDAVPCSTTI NRNRMGRDKK RTFPLCFDDH DPAVIHENAS |
|               | QPEVLVPIRL DMEIDGQKLR DAFTWNMNEK LMTPEMFSEI LCDDLDLNPL TFVPAIASAI |
|               | RQQIESYPTD SILEDQSDQR VIIKLNIHVG NISLVDQFEW DMSEKENSPE KFALKLCSEL |
|               | GLGGEFVTTI AYSIRGQLSW HQKTYAFSEN PLPTVEIAIR NTGDADQWCP LLETLTDAEM |
|               | EKKIRDQDRN TRRMR  |
| Purification: | SDS-PAGE  |
| Purity:       | > 90 %  |

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| Target:             | SMARCB1   |  |  |
|---------------------|---|--|--|
| Alternative Name:   | SNF5 (SMARCB1 Products)   |  |  |
| Background:         | Core component of the BAF (hSWI/SNF) complex. This ATP-dependent chromatin-rodeling 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 rodeling activity of SMARCA4/BRG1/BAF190A. Involved in activation of CSF1 promoter. Belongs to the neural progenitors-specific chromatin rodeling complex (npBAF complex) and the neuron-specific chromatin rodeling complex (nBAF complex). During neural development a switch from a st/progenitor to a post-mitotic chromatir rodeling mechanism occurs as neurons exit the cell cycle and become committed to their adult state. The transition from proliferating neural st/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/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 st cells. The nBAF complex along with CREST plays a role regulating the activity of genes essential for dendrite growth . Plays a key role in cell-cycle control and causes cell cycle arrest in GO/G1. |  |  |
| Molecular Weight:   | 47 kDa  |  |  |
| UniProt:            | Q12824  |  |  |
| Application Details |   |  |  |
| Application Notes:  | Optimal working dilution should be determined by the investigator.  |  |  |
| Restrictions:       | For Research Use only   |  |  |
| Handling            |   |  |  |
| Format:             | Liquid  |  |  |
| Concentration:      | 0.1-2 mg/mL   |  |  |

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| Buffer:          | 20 mM Tris-HCl based buffer, pH 8.0   |  |
|------------------|---|--|
| Storage:         | -80 °C,4 °C,-20 °C  |  |
| Storage Comment: | Store at -20°C, for extended storage, conserve at -20°C or -80°C. Repeated freezing and thawing |  |
|                  | is not recommended. Store working aliquots at 4°C for up to one week.                           |  |

## Images

|   | 116 kDa<br>66.2 kDa<br>45 kDa | SDS-PAGE<br>Image 1. |
|---|-------------------------------|----------------------|
| - | 35 kDa                        |                      |
| - | 25 kDa                        |                      |
| - | 18. 4kDa                      |                      |
| - | 14.4 kDa                      |                      |

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