Datasheet for ABIN7565254

SMARCB1 Protein (AA 1-385) (His tag)

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Overview

Quantity:	1 mg
Target:	SMARCB1
Protein Characteristics:	AA 1-385
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMARCB1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Smarcb1 Protein expressed in mammalian cells.
Sequence:	MMMMALSKTF GQKPVKFQLE DDGEFYMIGS EVGNYLRMFR GSLYKRYPSL WRRLATVEER KKIVASSHGK KTKPNTKDHG YTTLATSVTL LKASEVEEIL DGNDEKYKAV SISTEPPTYL REQKAKRNSQ WVPTLPNSSH HLDAVPCSTT INRNRMGRDK KRTFPLCFDD HDPAVIHENA SQPEVLVPIR LDMEIDGQKL RDAFTWNMNE KLMTPEMFSE ILCDDLDLNP LTFVPAIASA IRQQIESYPT DSILEDQSDQ RVIIKLNIHV GNISLVDQFE WDMSEKENSP EKFALKLCSE LGLGGEFVTT IAYSIRGQLS WHQKTYAFSE NPLPTVEIAI RNTGDADQWC PLLETLTDAE MEKKIRDQDR NTRRMRRLAN TAPAW **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	SMARCB1
Alternative Name:	Smarcb1 (SMARCB1 Products)
Background:	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily B member 1 (BRG1-associated factor 47) (BAF47) (Integrase interactor 1 protein) (SNF5 homolog) (mSNF5),FUNCTION: Core component of the BAF (SWI/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. Plays a key role in cell-cycle control and causes cell cycle arrest in G0/G1. 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.

Target Details

	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. {ECO:0000250|UniProtKB:Q12824, ECO:0000269|PubMed:17640523, ECO:0000303|PubMed:22952240, ECO:0000303|PubMed:26601204}.
Molecular Weight:	44.1 kDa
UniProt:	Q9Z0H3

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months

