Datasheet for ABIN7563559

SMARCC1 Protein (AA 1-1104) (His tag)

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Overview

Quantity:	1 mg
Target:	SMARCC1
Protein Characteristics:	AA 1-1104
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMARCC1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Smarcc1 Protein expressed in mammalien cells.
Sequence:	MAATAGGGPG AAAGAVGAGG AAAASGLAVY RRKDGGPASK FWESPDTVSQ LDSVRVWLGK HYKKYVHADA PTNKTLAGLV VQLLQFQEDA FGKHVTNPAF TKLPAKCFMD FKAGGTLCHI LGAAYKYKNE QGWRRFDLQN PSRMDRNVEM FMNIEKTLVQ NNCLTRPNIY LIPDIDLKLA NKLKDIIKRH QGTFTDEKSK ASHHIYPYPS SQEDEEWLRP VMRRDKQVLV HWGFYPDSYD TWVHSNDVDA EIEDAPIPEK PWKVHVKWIL DTDVFNEWMN EEDYEVDENR KPVSFRQRIS TKNEEPVRSP ERRDRKASAN SRKRKPSPSP PPPTATESRK KSGKKGQASL YGKRRSQKEE DEQEDLTKDM EDPTPVPNIE EVVLPKNVNP KKDSENTPVK GGTVADLDEQ DEEAVTTGGK EDEDPSKGDP SRSVDPGEDN VTEQTNHIII PSYASWFDYN CIHVIERRAL PEFFNGKNKS KTPEIYLAYR NFMIDTYRLN PQEYLTSTAC RRNLTGDVCA VMRVHAFLEQ WGLVNYQVDP ESRPMAMGPP PTPHFNVLAD TPSGLVPLHL RSPQVPAAQQ MLNFPEKNKE KPIDLQNFGL RTDIYSKKTL AKSKGASAGR EWTEQETLLL LEALEMYKDD WNKVSEHVGS RTQDECILHF

Product Details

	LRLPIEDPYL ENSDASLGPL AYQPVPFSQS GNPVMSTVAF LASVVDPRVA SAAAKAALEE FSRVREEVPL ELVEAHVKKV QEAARASGKV DPTYGLESSC IAGTGPDEPE KLEGSEEEKM ETDPDGQQPE KAENKVENES DEGDKIQDRE NEKNTEKEQD SDVSEDVKPE EKENEENKEL TDTCKERESD AGKKKVEHEI SEGNVATAAA AALASAATKA KHLAAVEERK IKSLVALLVE TQMKKLEIKL RHFEELETIM DREKEALEQQ RQQLLTERQN FHMEQLKYAE LRARQQMEQQ QQHGQTPQQA HQHTGGPGMA PLGATGHPGM MPHQQPPPYP LMHHQMPPPH PPQPGQIPGP GSMMPGQPMP GRMIPAVAAN IHPTGSGPTP PGMPPMPGNI LGPRVPLTAP NGMYPPPPQQ QQPPPPADGV PPPPAPGPPA SATP **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.**
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien 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, Western Blot
Grade:	custom-made

Target Details

Target:	SMARCC1
Alternative Name:	Smarcc1 (SMARCC1 Products)
Background:	SWI/SNF complex subunit SMARCC1 (BRG1-associated factor 155) (SWI/SNF complex 155 kDa subunit) (SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily C member 1) (SWI3-related protein) (BAF155),FUNCTION: Involved in transcriptional

Target Details

	activation and repression of select genes by chromatin remodeling (alteration of DNA-nucleosome topology). Component of SWI/SNF chromatin remodeling complexes that carry out key enzymatic activities, changing chromatin structure by altering DNA-histone contacts within a nucleosome in an ATP-dependent manner. May stimulate the ATPase activity of the catalytic subunit of the complex. 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. 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:Q92922, ECO:0000269|PubMed:11604513, ECO:0000269|PubMed:17640523, ECO:0000303|PubMed:22952240, ECO:0000303|PubMed:26601204}.
Molecular Weight:	122.9 kDa
UniProt:	P97496
Pathways:	Chromatin Binding

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. 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.

Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months