Datasheet for ABIN7563915

SMARCD1 Protein (AA 1-515) (His tag)

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Overview

Quantity:	1 mg
Target:	SMARCD1
Protein Characteristics:	AA 1-515
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SMARCD1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Smarcd1 Protein expressed in mammalien cells.
Sequence:	MAARAGFQSV APSGGAGASG GAGVAAALGP GGTPGPPVRM GPAPGQGLYR SPMPGAAYPR PGMLPGSRMT PQGPSMGPPG YGGNPSVRPG LAQSGMDQSR KRPAPQQIQQ VQQQAVQNRN HNAKKKKMAD KILPQRIREL VPESQAYMDL LAFERKLDQT IMRKRLDIQE ALKRPIKQKR KLRIFISNTF NPAKSDAEDG EGTVASWELR VEGRLLEDAA LSKYDATKQK RKFSSFFKSL VIELDKDLYG PDNHLVEWHR TATTQETDGF QVKRPGDVNV RCTVLLMLDY QPPQFKLDPR LARLLGIHTQ TRPVIIQALW QYIKTHKLQD PHEREFVLCD KYLQQIFESQ RMKFSEIPQR LHALLMPPEP IIINHVISVD PNDQKKTACY DIDVEVDDTL KTQMNSFLLS TASQQEIATL DNKIHETIET INQLKTQREF MLSFARDPQG FINDWLQSQC RDLKTMTDVV GNPEEERRAE FYFQPWAQEA VCRYFYSKVQ QRRQELEQAL GIRNT **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**

Product Details

	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:	SMARCD1
Alternative Name:	Smarcd1 (SMARCD1 Products)
Background:	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily D member 1 (60 kDa BRG-1/Brm-associated factor subunit A) (BRG1-associated factor 60A) (BAF60A) (Protein D15KZ1) (SWI/SNF complex 60 kDa subunit),FUNCTION: Involved in transcriptional 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 (By similarity). 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

Target Details

	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 (PubMed:17640523). Has a strong influence on vitamin D-mediated transcriptional activity from an enhancer vitamin D receptor element (VDRE). May be a link between mammalian SWI-SNF-like chromatin remodeling complexes and the vitamin D receptor (VDR) heterodimer. Mediates critical interactions between nuclear receptors and the BRG1/SMARCA4 chromatin-remodeling complex for transactivation (By similarity). {ECO:0000250|UniProtKB:Q96GM5, ECO:0000269|PubMed:17640523}.
Molecular Weight:	58.2 kDa
UniProt:	Q61466

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