Datasheet for ABIN7563867

SATB1 Protein (AA 1-764) (His tag)

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Overview

Quantity:	1 mg
Target:	SATB1
Protein Characteristics:	AA 1-764
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SATB1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Satb1 Protein expressed in mammalian cells.
Sequence:	MDHLNEATQG KEHSEMSNNV SDPKGPPAKI ARLEQNGSPL GRGRLGSTGG KMQGVPLKHS GHLMKTNLRK GTMLPVFCVV EHYENAIEYD CKEEHAEFVL VRKDMLFNQL IEMALLSLGY SHSSAAQAKG LIQVGKWNPV PLSYVTDAPD ATVADMLQDV YHVVTLKIQL HSCPKLEDLP PEQWSHTTVR NALKDLLKDM NQSSLAKECP LSQSMISSIV NSTYYANVSA AKCQEFGRWY KHFKKTKDMM VEMDSLSELS QQGANHVNFG QQPVPGNTAE QPPSPAQLSH GSQPSVRTPL PNLHPGLVST PISPQLVNQQ LVMAQLLNQQ YAVNRLLAQQ SLNQQYLNHP PPVSRSMNKP LEQQVSTNTE VSSEIYQWVR DELKRAGISQ AVFARVAFNR TQGLLSEILR KEEDPKTASQ SLLVNLRAMQ NFLQLPEAER DRIYQDERER SLNAASAMGP APLLSTPPSR PPQVKTATLA TERNGKPENN TMNINASIYD EIQQEMKRAK VSQALFAKVA ATKSQGWLCE LLRWKEDPSP ENRTLWENLS MIRRFLSLPQ PERDAIYEQE SNAVHHHGDR PPHIIHVPAE QIQQQQQQQQ QQQQQQQPPP PPPQPQPQPQ AGPRLPPRQP TVASSAESDE ENRQKTRPRT KISVEALGIL QSFIQDVGLY PDEEAIQTLS AQLDLPKYTI IKFFQNQRYY LKHHGKLKDN SGLEVDVAEY

Product Details

	KDEELLKDLE ESVQDKNANT LFSVKLEEEL SVEGSTDVNA DLKD **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: • 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:	SATB1
Alternative Name:	Satb1 (SATB1 Products)
Background:	DNA-binding protein SATB1 (Special AT-rich sequence-binding protein 1),FUNCTION: Required for the switching of fetal globin species, and beta- and gamma-globin genes regulation during erythroid differentiation. Plays a role in chromatin organization and nuclear architecture during apoptosis (By similarity). Crucial silencing factor contributing to the initiation of X inactivation mediated by Xist RNA that occurs during embryogenesis and in lymphoma. Binds to DNA at special AT-rich sequences, the consensus SATB1-binding sequence (CSBS), at nuclear matrix- or scaffold-associated regions. Thought to recognize the sugar-phosphate structure of double-

Target Details

	stranded DNA. Transcriptional repressor controlling nuclear and viral gene expression in a phosphorylated and acetylated status-dependent manner, by binding to matrix attachment regions (MARs) of DNA and inducing a local chromatin-loop remodeling. Acts as a docking site for several chromatin remodeling enzymes and also by recruiting corepressors (HDACs) or coactivators (HATs) directly to promoters and enhancers. Modulates genes that are essential in the maturation of the immune T-cell CD8SP from thymocytes. Promotes neuronal differentiation of neural stem/progenitor cells in the adult subventricular zone, possibly by positively regulating the expression of NEUROD1 (PubMed:26305964). {ECO:0000250, ECO:0000269|PubMed:10716941, ECO:0000269|PubMed:11463840, ECO:0000269|PubMed:12692553, ECO:0000269|PubMed:15814699, ECO:0000269|PubMed:17057718, ECO:0000269|PubMed:18722016, ECO:0000269|PubMed:19103759, ECO:0000269|PubMed:19386260, ECO:0000269|PubMed:26305964, ECO:0000269|PubMed:9271405}.
Molecular Weight:	85.9 kDa
UniProt:	Q60611
Pathways:	Caspase Cascade in Apoptosis, Activated T Cell Proliferation

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

