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Datasheet for ABIN3135271 SATB1 Protein (AA 1-764) (His tag)

Image



Overview

Quantity:	1 mg
Target:	SATB1
Protein Characteristics:	AA 1-764
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SATB1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

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 QIQQQQQQQ
	QQQQQQPPP PPPQPQPQPQ AGPRLPPRQP TVASSAESDE ENRQKTRPRT KISVEALGIL
	QSFIQDVGLY PDEEAIQTLS AQLDLPKYTI IKFFQNQRYY LKHHGKLKDN SGLEVDVAEY

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	KDEELLKDLE ESVQDKNANT LFSVKLEEEL SVEGSTDVNA DLKD
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Mouse Satb1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. 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 will ensure that you receive a correctly folded protein.
	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.
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	(other companies might charge you for any performed steps in the expression process for
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	experiments or purification optimization).
	When you order this made-to-order protein you will only pay upon receival of the correctly
	folded protein. With no financial risk on your end you can rest assured that our experienced
	protein experts will do everything to make sure that you receive the protein you ordered.
	The concentration of our recombinant proteins is measured using the absorbance at 280nm.
	The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
	 Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.

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Product Details

Grade:

Crystallography grade

Target Details

Target:	SATB1
Alternative Name:	Satb1 (SATB1 Products)
Background:	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-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. {ECO:0000250, ECO:0000269 PubMed:10716941,
	EC0:0000269 PubMed:11463840, EC0:0000269 PubMed:12692553,
	EC0:0000269 PubMed:15814699, EC0:0000269 PubMed:17057718,
	EC0:0000269 PubMed:18722016, EC0:0000269 PubMed:19103759,
	ECO:0000269 PubMed:19386260, ECO:0000269 PubMed:9271405}.
Molecular Weight:	86.8 kDa Including tag.
UniProt:	Q60611
Pathways:	Caspase Cascade in Apoptosis, Activated T Cell Proliferation
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 gurante though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the
	recombinant protein with the default tag will be insoluble our protein lab may suggest a higher
	molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible

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Application Details	
	options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)

Images

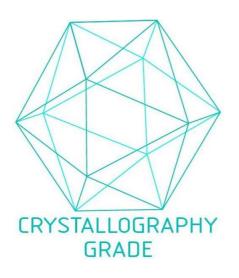


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process