antibodies

Datasheet for ABIN3093729 MAD1L1 Protein (AA 1-718) (Strep Tag)





Overview

Quantity:	1 mg
Target:	MAD1L1
Protein Characteristics:	AA 1-718
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAD1L1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MEDLGENTMV LSTLRSLNNF ISQRVEGGSG LDISTSAPGS LQMQYQQSMQ LEERAEQIRS
	KSHLIQVERE KMQMELSHKR ARVELERAAS TSARNYEREV DRNQELLTRI RQLQEREAGA
	EEKMQEQLER NRQCQQNLDA ASKRLREKED SLAQAGETIN ALKGRISELQ WSVMDQEMRV
	KRLESEKQEL QEQLDLQHKK CQEANQKIQE LQASQEARAD HEQQIKDLEQ KLSLQEQDAA
	IVKNMKSELV RLPRLERELK QLREESAHLR EMRETNGLLQ EELEGLQRKL GRQEKMQETL
	VGLELENERL LAKLQSWERL DQTMGLSIRT PEDLSRFVVE LQQRELALKD KNSAVTSSAR
	GLEKARQQLQ EELRQVSGQL LEERKKRETH EALARRLQKR VLLLTKERDG MRAILGSYDS
	ELTPAEYSPQ LTRRMREAED MVQKVHSHSA EMEAQLSQAL EELGGQKQRA DMLEMELKML
	KSQSSSAEQS FLFSREEADT LRLKVEELEG ERSRLEEEKR MLEAQLERRA LQGDYDQSRT
	KVLHMSLNPT SVARQRLRED HSQLQAECER LRGLLRAMER GGTVPADLEA AAASLPSSKE
	VAELKKQVES AELKNQRLKE VFQTKIQEFR KACYTLTGYQ IDITTENQYR LTSLYAEHPG
	DCLIFKATSP SGSKMQLLET EFSHTVGELI EVHLRRQDSI PAFLSSLTLE LFSRQTVA

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/5 | Product datasheet for ABIN3093729 | 04/17/2024 | Copyright antibodies-online. All rights reserved. Sequence without tag. The proposed Strep-Tag is based on experience s 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 in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALICE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- 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.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALICE®):

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	 In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. 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:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade
Target Details	

Target:	MAD1L1
Alternative Name:	MAD1L1 (MAD1L1 Products)
Background:	Mitotic spindle assembly checkpoint protein MAD1 (Mitotic arrest deficient 1-like protein 1)
	(MAD1-like protein 1) (Mitotic checkpoint MAD1 protein homolog) (HsMAD1) (hMAD1) (Tax-
	binding protein 181),FUNCTION: Component of the spindle-assembly checkpoint that prevents
	the onset of anaphase until all chromosomes are properly aligned at the metaphase plate
	(PubMed:10049595, PubMed:20133940, PubMed:29162720). Forms a heterotetrameric
	complex with the closed conformation form of MAD2L1 (C-MAD2) at unattached kinetochores
	during prometaphase, recruits an open conformation of MAD2L1 (O-MAD2) and promotes the
	conversion of O-MAD2 to C-MAD2, which ensures mitotic checkpoint signaling
	(PubMed:29162720). {ECO:0000269 PubMed:10049595, ECO:0000269 PubMed:20133940,
	ECO:0000269 PubMed:29162720, ECO:0000269 PubMed:36322655}., FUNCTION: [Isoform 3]:
	Sequesters MAD2L1 in the cytoplasm preventing its function as an activator of the mitotic
	spindle assembly checkpoint (SAC) resulting in SAC impairment and chromosomal instability in
	hepatocellular carcinomas. {ECO:0000269 PubMed:19010891}.
Molecular Weight:	83.1 kDa
UniProt:	Q9Y6D9
Pathways:	M Phase
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

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Application Details	
	guarantee though.
Comment:	ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from
	Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce
	even the most difficult-to-express proteins, including those that require post-translational
	modifications.
	During lysate production, the cell wall and other cellular components that are not required for
	protein production are removed, leaving only the protein production machinery and the
	mitochondria to drive the reaction. During our lysate completion steps, the additional
	components needed for protein production (amino acids, cofactors, etc.) are added to produce
	something that functions like a cell, but without the constraints of a living system - all that's
	needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only
Handling	

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)



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

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