antibodies

Datasheet for ABIN3083477 MAEA Protein (AA 1-396) (Strep Tag)



Overview

Quantity:	1 mg
Target:	MAEA
Protein Characteristics:	AA 1-396
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAEA protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:	MAVQESAAQL SMTLKVQEYP TLKVPYETLN KRFRAAQKNI DRETSHVTMV VAELEKTLSG
	CPAVDSVVSL LDGVVEKLSV LKRKAVESIQ AEDESAKLCK RRIEHLKEHS SDQPAAASVW
	KRKRMDRMMV EHLLRCGYYN TAVKLARQSG IEDLVNIEMF LTAKEVEESL ERRETATCLA
	WCHDNKSRLR KMKSCLEFSL RIQEFIELIR QNKRLDAVRH ARKHFSQAEG SQLDEVRQAM
	GMLAFPPDTH ISPYKDLLDP ARWRMLIQQF RYDNYRLHQL GNNSVFTLTL QAGLSAIKTP
	QCYKEDGSSK SPDCPVCSRS LNKLAQPLPM AHCANSRLVC KISGDVMNEN NPPMMLPNGY
	VYGYNSLLSI RQDDKVVCPR TKEVFHFSQA EKVYIM
	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:

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- · 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®):

- 1. 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.

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Product Details

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)

Target Details

Target:	MAEA
Alternative Name:	MAEA (MAEA Products)
Background:	E3 ubiquitin-protein transferase MAEA (EC 2.3.2.27) (Cell proliferation-inducing gene 5 protein)
	(Erythroblast macrophage protein) (Human lung cancer oncogene 10 protein) (HLC-10)
	(Macrophage erythroblast attacher) (P44EMLP),FUNCTION: Core component of the CTLH E3
	ubiquitin-protein ligase complex that selectively accepts ubiquitin from UBE2H and mediates
	ubiquitination and subsequent proteasomal degradation of the transcription factor HBP1.
	MAEA and RMND5A are both required for catalytic activity of the CTLH E3 ubiquitin-protein
	ligase complex (PubMed:29911972). MAEA is required for normal cell proliferation
	(PubMed:29911972). The CTLH E3 ubiquitin-protein ligase complex is not required for the
	degradation of enzymes involved in gluconeogenesis, such as FBP1 (PubMed:29911972). Plays
	a role in erythroblast enucleation during erythrocyte maturation and in the development of
	mature macrophages (By similarity). Mediates the attachment of erythroid cell to mature
	macrophages, this MAEA-mediated contact inhibits erythroid cell apoptosis
	(PubMed:9763581). Participates in erythroblastic island formation, which is the functional unit
	of definitive erythropoiesis. Associates with F-actin to regulate actin distribution in erythroblast
	and macrophages (By similarity). May contribute to nuclear architecture and cells division
	events (Probable). {ECO:0000250 UniProtKB:Q4VC33, ECO:0000269 PubMed:29911972,
	ECO:0000269 PubMed:9763581, ECO:0000305 PubMed:16510120}.
Molecular Weight:	45.3 kDa
UniProt:	Q7L5Y9
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.
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

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	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
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Handling	
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Format: Buffer: Handling Advice:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us. Avoid repeated freeze-thaw cycles.