antibodies

Datasheet for ABIN3096149 LCMT2 Protein (AA 1-686) (Strep Tag)





Overview

Quantity:	1 mg
Target:	LCMT2
Protein Characteristics:	AA 1-686
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This LCMT2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MGPRSRERRA GAVQNTNDSS ALSKRSLAAR GYVQDPFAAL LVPGAARRAP LIHRGYYVRA
	RAVRHCVRAF LEQIGAPQAA LRAQILSLGA GFDSLYFRLK TAGRLARAAV WEVDFPDVAR
	RKAERIGETP ELCALTGPFE RGEPASALCF ESADYCILGL DLRQLQRVEE ALGAAGLDAA
	SPTLLLAEAV LTYLEPESAA ALIAWAAQRF PNALFVVYEQ MRPQDAFGQF MLQHFRQLNS
	PLHGLERFPD VEAQRRRFLQ AGWTACGAVD MNEFYHCFLP AEERRRVENI EPFDEFEEWH
	LKCAHYFILA ASRGDTLSHT LVFPSSEAFP RVNPASPSGV FPASVVSSEG QVPNLKRYGH
	ASVFLSPDVI LSAGGFGEQE GRHCRVSQFH LLSRDCDSEW KGSQIGSCGT GVQWDGRLYH
	TMTRLSESRV LVLGGRLSPV SPALGVLQLH FFKSEDNNTE DLKVTITKAG RKDDSTLCCW
	RHSTTEVSCQ NQEYLFVYGG RSVVEPVLSD WHFLHVGTMA WVRIPVEGEV PEARHSHSAC
	TWQGGALIAG GLGASEEPLN SVLFLRPISC GFLWESVDIQ PPITPRYSHT AHVLNGKLLL
	VGGIWIHSSS FPGVTVINLT TGLSSEYQID TTYVPWPLML HNHTSILLPE EQQLLLLGGG
	GNCFSFGTYF NPHTVTLDLS SLSAGQ

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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:	LCMT2
Alternative Name:	LCMT2 (LCMT2 Products)
Background:	TRNA wybutosine-synthesizing protein 4 (tRNA yW-synthesizing protein 4) (EC 2.1.1.290) (EC
	2.3.1.231) (Leucine carboxyl methyltransferase 2) (tRNA(Phe) (7-(3-amino-3-
	(methoxycarbonyl)propyl)wyosine(37)-N)-methoxycarbonyltransferase) (tRNA(Phe) (7-(3-
	amino-3-carboxypropyl)wyosine(37)-0)-methyltransferase),FUNCTION: Probable S-adenosyl-L-
	methionine-dependent methyltransferase that acts as a component of the wybutosine
	biosynthesis pathway. Wybutosine is a hyper modified guanosine with a tricyclic base found at
	the 3'-position adjacent to the anticodon of eukaryotic phenylalanine tRNA (By similarity). May
	methylate the carboxyl group of leucine residues to form alpha-leucine ester residues.
	{ECO:0000250}.
Molecular Weight:	75.6 kDa
UniProt:	060294
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
	modifications.

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Application Details

During lysate production, the cell wall and other cellular components that are not required for
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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)

Images



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

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