

Datasheet for ABIN3121161 SPTLC2 Protein (AA 1-560) (Strep Tag)



Overview

Quantity:	1 mg
Target:	SPTLC2
Protein Characteristics:	AA 1-560
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SPTLC2 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:	MRPEPGGCCC RRPMRANGCV KNGEVRNGYL RSSTATVAAA GQIHHVTENG GLYKRPFNEA
	FEETPMLVAV LTYVGYGVLT LFGYLRDFLR HWRIEKCHHA TEREEQKDFV SLYQDFENFY
	TRNLYMRIRD NWNRPICSVP GAKVDIMERK SHDYNWSFKY TGNIIKGVIN MGSYNYLGFA
	RNTGSCQEAA AEVLKEYGAG VCSTRQEIGN LDKHEELEKL VARFLGVEAA MTYGMGFATN
	SMNIPALVGK GCLILSDELN HASLVLGARL SGATIRIFKH NNMQSLEKLL KDAIVYGQPR
	TRRPWKKILI LVEGIYSMEG SIVRLPEVIA LKKKYKAYLY LDEAHSIGAL GPSGRGVVDY
	FGLDPEDVDV MMGTFTKSFG ASGGYIGGKK ELIDYLRTHS HSAVYATSMS PPVMEQIITS
	MKCIMGQDGT SLGKECIQQL AENTRYFRRR LKEMGFIIYG NEDSPVVPLM LYMPAKIGAF
	GREMLKRNIG VVVVGFPATP IIESRARFCL SAAHTKEILD TALKEIDEVG DLLQLKYSRH
	RLVPLLDRPF DETTYEETED
	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

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	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 in one-step affinity chromatography 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 try to ensure that you receive soluble 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 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!
	Concentration:
	 The concentration of our recombinant proteins is measured using the absorbance at 280nm The protein's absorbance will be measured against its specific reference buffer. We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein
Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

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Target:	SPTLC2
Alternative Name:	Sptlc2 (SPTLC2 Products)
Background:	Serine palmitoyltransferase 2 (EC 2.3.1.50) (Long chain base biosynthesis protein 2) (LCB 2)
	(Long chain base biosynthesis protein 2a) (LCB2a) (Serine-palmitoyl-CoA transferase 2) (SPT
	2),FUNCTION: Component of the serine palmitoyltransferase multisubunit enzyme (SPT) that
	catalyzes the initial and rate-limiting step in sphingolipid biosynthesis by condensing L-serine
	and activated acyl-CoA (most commonly palmitoyl-CoA) to form long-chain bases. The SPT
	complex is composed of SPTLC1, SPTLC2 or SPTLC3 and SPTSSA or SPTSSB. Within this
	complex, the heterodimer consisting of SPTLC1 and SPTLC2/SPTLC3 forms the catalytic core.
	The composition of the serine palmitoyltransferase (SPT) complex determines the substrate
	preference. The SPTLC1-SPTLC2-SPTSSA complex shows a strong preference for C16-CoA
	substrate, while the SPTLC1-SPTLC3-SPTSSA isozyme uses both C14-CoA and C16-CoA as
	substrates, with a slight preference for C14-CoA. The SPTLC1-SPTLC2-SPTSSB complex shows
	a strong preference for C18-CoA substrate, while the SPTLC1-SPTLC3-SPTSSB isozyme
	displays an ability to use a broader range of acyl-CoAs, without apparent preference (By
	similarity). Crucial for adipogenesis (PubMed:28698261). {ECO:0000250 UniProtKB:015270,
	ECO:0000269 PubMed:28698261}.
Molecular Weight:	63.0 kDa
UniProt:	P97363
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.
	During lysate production, the cell wall and other cellular components that are not required for
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Application Details	
	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)