

Datasheet for ABIN3135958

LATS2 Protein (AA 1-1042) (Strep Tag)



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Overview

Quantity:	1 mg
Target:	LATS2
Protein Characteristics:	AA 1-1042
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This LATS2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:

MRPKTFPATT YSGNSRQRLQ EIREGLKQPS KASTQGLLVG PNSDTSLDAK VLGSKDASRQ QQMRATPKFG PYQKALREIR YSLLPFANES GTSAAAEVNR QMLQELVNAG CDQEMAGRAL KQTGSRSIEA ALEYISKMGY LDPRNEQIVR VIKQTSPGKG LAPTPVTRRP SFEGTGEALP SYHQLGGANY EGPAALEEMP RQYLDFLFPG AGAGTHGAQA HQHPPKGYST AVEPSAHFPG THYGRGHLLS EQPGYGVQRS SSFQNKTPPD AYSSMAKAQG GPPASLTFPA HAGLYTASHH KPAATPPGAH PLHVLGTRGP TFTGESSAQA VLAPSRNSLN ADLYELGSTV PWSAAPLARR DSLQKQGLEA SRPHVAFRAG PSRTNSFNNP QPEPSLPAPN TVTAVTAAHI LHPVKSVRVL RPEPQTAVGP SHPAWVAAPT APATESLETK EGSAGPHPLD VDYGGSERRC PPPPYPKHLL LPSKSEQYSV DLDSLCTSVQ QSLRGGTEQD RSDKSHKGAK GDKAGRDKKQ IQTSPVPVRK NSRDEEKRES RIKSYSPYAF KFFMEQHVEN VIKTYQQKVS RRLQLEQEMA KAGLCEAEQE QMRKILYQKE SNYNRLKRAK MDKSMFVKIK TLGIGAFGEV CLACKLDTHA LYAMKTLRKK DVLNRNQVAH VKAERDILAE ADNEWVVKLY YSFQDKDSLY FVMDYIPGGD MMSLLIRMEV

FPEHLARFYI AELTLAIESV HKMGFIHRDI KPDNILIDLD GHIKLTDFGL CTGFRWTHNS

KYYQKGNHMR QDSMEPGDLW DDVSNCRCGD RLKTLEQRAQ KQHQRCLAHS LVGTPNYIAP

EVLLRKGYTQ LCDWWSVGVI LFEMLVGQPP FLAPTPTETQ LKVINWESTL HIPTQVRLSA

EARDLITKLC CAADCRLGRD GADDLKAHPF FNTIDFSRDI RKQPAPYVPT ISHPMDTSNF

DPVDEESPWH EASGESAKAW DTLASPSSKH PEHAFYEFTF RRFFDDNGYP FRCPKPSEPA

ESADPGDADL EGAAEGCQPV YV

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 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 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 against its specific reference buffer.

	We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.
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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).
Target Details	
Target:	LATS2
Alternative Name:	Lats2 (LATS2 Products)
Background:	Serine/threonine-protein kinase LATS2 (EC 2.7.11.1) (Kinase phosphorylated during mitosis
	protein) (Large tumor suppressor homolog 2) (Serine/threonine-protein kinase
	kpm),FUNCTION: Negative regulator of YAP1 in the Hippo signaling pathway that plays a pivota
	role in organ size control and tumor suppression by restricting proliferation and promoting
	apoptosis. The core of this pathway is composed of a kinase cascade wherein STK3/MST2 and
	STK4/MST1, in complex with its regulatory protein SAV1, phosphorylates and activates
	LATS1/2 in complex with its regulatory protein MOB1, which in turn phosphorylates and
	inactivates YAP1 oncoprotein and WWTR1/TAZ. Phosphorylation of YAP1 by LATS2 inhibits its
	translocation into the nucleus to regulate cellular genes important for cell proliferation, cell
	death, and cell migration. Acts as a tumor suppressor which plays a critical role in centrosome
	duplication, maintenance of mitotic fidelity and genomic stability. Negatively regulates G1/S
	transition by down-regulating cyclin E/CDK2 kinase activity. Negative regulator of the androgen
	receptor. Phosphorylates SNAI1 in the nucleus leading to its nuclear retention and stabilization,
	which enhances its epithelial-mesenchymal transition and tumor cell invasion/migration
	activities. This tumor-promoting activity is independent of its effects upon YAP1 or
	WWTR1/TAZ (By similarity). {ECO:0000250, ECO:0000269 PubMed:15343267}.
Molecular Weight:	115.5 kDa
UniProt:	Q7TSJ6
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.

Application Details

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Restrictions:

For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months