

Datasheet for ABIN7564219

LATS2 Protein (AA 1-1042) (His tag)



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Overview

Quantity:	1 mg
Target:	LATS2
Protein Characteristics:	AA 1-1042
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LATS2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Lats2 Protein expressed in mammalian cells.
Sequence:	<p>MRPKTFPATT YSGNSRQLRQ EIREGLKQPS KASTQGILLVG PNSDTSLDAK VLGSKDASRQ</p> <p>QQMRATPKFG PYQKALREIR YSLLPFANES GTSAAAEVNR QMLQELVNAG CDQEMAGRAL</p> <p>KQTGSRISIA ALEYISKMGY LDPRNEQIVR VIKQTSPGKG LAPTPVTRRP SFEGTGEALP</p> <p>SYHQLGGANY EGPAALEEMP RQYLDLFLPG AGAGTHGAQA HQHPPKGYST AVEPSAHFPG</p> <p>THYGRGHLLS EQPGYGVQRS SSFQNKTPPD AYSSMAKAQG GPPASLT FPA HAGLYTASHH</p> <p>KPAATPPGAH PLHVLGTRGP TFTGESSAQA VLAPSRNSLN ADLYELGSTV PWSAAPLARR</p> <p>DSLQKQGLEA SRPHVAFRAG PSRTNSFNNP QPEPSLPAPN TVTAVTAAHI LHPVKSVRVL</p> <p>RPEPQTAVGP SHPAWVAAPT APATESLETK EGSAGPHPLD VDYGGSEERRC PPPPYPKHLL</p> <p>LPSKSEQYSV DLDSLCTSVQ QSLRGGTEQD RSDKSHKGAK GDKAGRDKKQ IQTSPVPVRK</p> <p>NSRDEEKRES RIKSYSPYAF KFFMEQHVEN VIKTYQQKVS RRLQLEQEMA KAGLCEAEQE</p> <p>QMRKILYQKE SNYNRLKRAK MDKSMFVKIK TLGIGAFGEV CLACKLDTHA LYAMKTLRKK</p>

DVLNRNQVAH VKAERDILAE ADNEWVVKLY YSFQDKDSLY FVM DYIPGGD MMSLLIRMEV
FPEHLARFYI AELTLAIESV HKMGFIHRDI KPDNILIDL DGHILTD FGL CTGFRWTHNS
KYYQKGNHMR QDSMEPGDLW DDVSNCR CGD RLKTLEQRAQ KQHQRCLAHS LVGTPNYIAP
EVLLRKGYTQ LCDWWSVGVI LFEMLVGQPP FLAPTP TETQ LKVINWESTL HIPTQVRLSA
EARDLITKLC CAADCRLGRD GADDLKAHPF FNTIDFSRDI RKQPAPYVPT ISHPMDTSNF
DPVDEESPWH EASGESAKAW DTLASPSSKH PEHAFYEFTF RRFDDNGYP FRCPKPSEPA
ESADPGDADL EGAAEGCQPV YV **Sequence without tag. The proposed Purification-Tag is based on experiences 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 to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

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 pivotal role in organ size control and tumor suppression by restricting proliferation and promoting

Target Details

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.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months