

Datasheet for ABIN7554409

## LATS2 Protein (AA 1-1088) (His tag)



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### Overview

Quantity:	1 mg
Target:	LATS2
Protein Characteristics:	AA 1-1088
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LATS2 protein is labelled with His tag.

### Product Details

Purpose:	Custom-made recombinant LATS2 Protein expressed in mammalian cells.
Sequence:	<p>MRPKTFPATT YSGNSRQLQ EIREGLKQPS KSSVQGLPAG PNSDTSLDAK VLGSKDATRQ</p> <p>QQQMRATPKF GPYQKALREI RYSLLPFANE SGTSAAAEVN RQMLQELVNA GCDQEMAGRA</p> <p>LKQTGSRSE AALEYISKMG YLDPRNEQIV RVIKQTSPGK GLMPTPVTRR PSFEGTGDSF</p> <p>ASYHQLSGTP YEGPSFGADG PTALEEMPRP YVDYLFPGVG PHGPGHQHQH PPKGYGASVE</p> <p>AAGAHFPLQG AHYGRPHLLV PGEPLGYGVQ RSPSFQSKTP PETGGYASLP TKGQGGPPGA</p> <p>GLAFPPPAAG LYVPHPHHKQ AGPAAHQLHV LGSRSQVFAS DSPPQSLTTP SRNSLNVDLY</p> <p>ELGSTSVQQW PAATLARRDS LQKPGLEAPP RAHVAFRPDC PVPSRTNSFN SHQPRPGPPG</p> <p>KAEPSLPAPN TVTAVTAAHI LHPVKSVRVL RPEPQTAVGP SHPAWVPAPA PAPAPAPAPA</p> <p>AEGLDAKEEH ALALGGAGAF PLDVEYGGPD RRCPPPPYPK HLLRSKSEQ YDLDSLCAAG</p> <p>EQSLRAGPNE PEGGDKSRKS AKGDKGGKDK KQIQTSPVPV RKNSRDEEKR ESRIKSYSPY</p> <p>AFKFFMEQHV ENVIKTYQQK VNRRLQLEQE MAKAGLCEAE EQQMRKILYQ KESNYNRLKR</p> <p>AKMDKSMFVK IKTLGIGAFG EVCLACKVDT HALYAMKTLR KKDVLNRNQV AHVKAERDIL</p>

## Product Details

AEADNEWVVK LYYSFQDKDS LYFVMDYIPG GDMMSLLIRM EVFPEHLARF YIAELTLAIE  
SVHKMGFIHR DIKPDNILID LDGHIKLTDF GLCTGFRWTH NSKYYQKGSV VRQDSMEPSD  
LWDDVSNCRC GDRLKTLEQR ARKQHQRC LA HSLVGTPNYI APEVLLRKG Y TQLCDWWSVG  
VILFEMLVGQ PPFLAPTPT TQLKVINWEN TLHIPAQVKL SPEARDLITK LCCSADHRLG  
RNGADDLKAH PFFSAIDFSS DIRKQPAPYV PTISHPMDTS NFDPVDEESP WNDASEGSTK  
AWDTLTSPNN KHPEHAFYEF TFRFFDDNG YPFRCPKPSG AEASQAESSD LESSDLVDQT  
EGCQPVYV **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.**

Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

## Target Details

Target:	LATS2
Alternative Name:	LATS2 ( <a href="#">LATS2 Products</a> )
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) (Warts-like

## Target Details

kinase),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 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 SNAIL 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. {ECO:0000269|PubMed:10871863, ECO:0000269|PubMed:12853976, ECO:0000269|PubMed:15131260, ECO:0000269|PubMed:18158288, ECO:0000269|PubMed:21952048}.

Molecular Weight: 120.1 kDa

UniProt: [Q9NRM7](#)

## Application Details

Application Notes: We expect the protein to work for functional studies. 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