

## Rabbit anti-Human, Mouse LATS2 Polyclonal Antibody | anti-LATS2 antibody

Phospho-LATS2 (Ser827) Antibody

| CATALOG # | HOST   | REACTIVITY   | APPLICATIONS        |
|-----------|--------|--------------|---------------------|
| AAA328548 | Rabbit | Human, Mouse | ELISA, Western Blot |

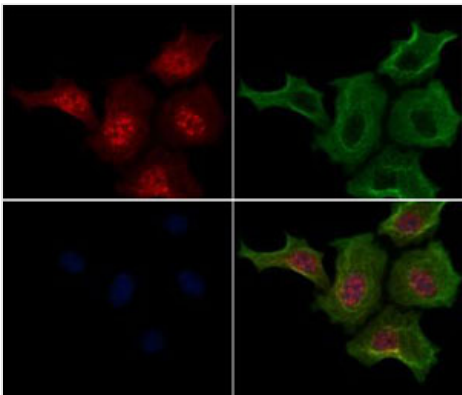
### PRODUCT SYNONYMS

LATS2; Polyclonal Antibody; Phospho-LATS2 (Ser827) Antibody; FLJ13161; Kinase phosphorylated during mitosis protein; KPM; Large tumor suppressor homolog 2; Large tumor suppressor homolog 2 Drosophila; Large tumor suppressor kinase 2; LATS large tumor suppressor Drosophila homolog 2; LATS large tumor suppressor homolog 2; Lats2; LATS2\_HUMAN; Serine/threonine kinase kpm; Serine/threonine protein kinase kpm; Serine/threonine-protein kinase kpm; Serine/threonine-protein kinase LATS2; Warts like kinase; Warts-like kinase; anti-LATS2 antibody

### PRODUCT SPECIFICATIONS

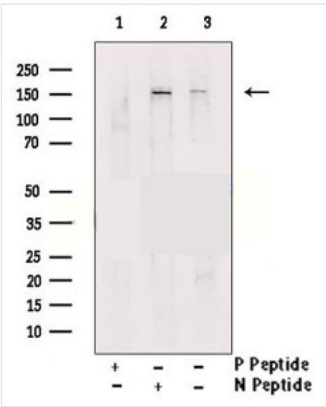
|                                                 |                                                                                                                                    |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                             |
| Reactivity                                      | Human, Mouse                                                                                                                       |
| Clonality                                       | Polyclonal                                                                                                                         |
| Isotype                                         | IgG                                                                                                                                |
| Specificity                                     | Phospho-LATS2 (Ser827) Antibody detects endogenous levels of LATS2 only when phosphorylated at Ser827.                             |
| Purity/Purification                             | Purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns. |
| Form/Format                                     | Liquid; Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                        |
| Concentration                                   | 1mg/ml (varies by lot)                                                                                                             |
| Sequence Length                                 | 5546                                                                                                                               |
| Applicable Applications for anti-LATS2 antibody | ELISA (Peptide ELISA), WB (Western Blot)                                                                                           |
| Immunogen                                       | A synthesized peptide derived from human LATS2 around the phosphorylation site of Ser827.                                          |
| Preparation and Storage                         | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                  |

IMAGES



IF (Immunofluorescence)

AAA328548 staining HepG2 cells (serum starvation) by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab (AAA328548 1:200) and mouse anti-beta tubulin Ab for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI(blue).



WB (Western Blot)

Western blot analysis of extracts from HeLa , using Phospho-LATS2 (Ser872) Antibody. Lane1 was treated with phospho-blocking peptide, Lane2 was treated with non-phospho-blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-LATS2 antibody

Description: 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 SNAIL1 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.

Post Translational Modifications: Autophosphorylated and phosphorylated during M-phase and the G1/S-phase of the cell cycle. Phosphorylated and activated by STK3/MST2.

Subunit Structure: Interacts with and is phosphorylated by AURKA. Binds to AR. Interacts with AJUBA during mitosis and this complex regulates organization of the spindle apparatus through recruitment of gamma-tubulin to the centrosome. Interacts (via PPxY motif) with YAP1 (via WW domains). Interacts with MOB1A and MOB1B. Interacts with LIMD1, WTIP and AJUBA. Interacts with SNAIL1.

Similarity: Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family.

NCBI AND UNIPROT INFORMATION

|                           |                                                            |
|---------------------------|------------------------------------------------------------|
| NCBI GI #                 | 1519314677                                                 |
| NCBI GeneID               | 26524                                                      |
| NCBI Accession #          | NM_014572                                                  |
| NCBI GenBank Nucleotide # | NM_014572.3                                                |
| UniProt Accession #       | Q9NRM7                                                     |
| Molecular Weight          | Observed: 150 kDa<br>Predicted: 121 kDa                    |
| NCBI Official Full Name   | Homo sapiens large tumor suppressor kinase 2 (LATS2), mRNA |

|                                  |                                       |
|----------------------------------|---------------------------------------|
| NCBI Official Synonym Full Names | large tumor suppressor kinase 2       |
| NCBI Official Symbol             | LATS2                                 |
| NCBI Official Synonym Symbols    | KPM                                   |
| NCBI Protein Information         | serine/threonine-protein kinase LATS2 |
| UniProt Protein Name             | Serine/threonine-protein kinase LATS2 |
| UniProt Gene Name                | <b>LATS2</b>                          |
| UniProt Synonym Gene Names       | KPM                                   |
| UniProt Entry Name               | LATS2_HUMAN                           |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/polyclonal/lats2-antibody-peptide-elisa-western-blot-elisa/328548>