

## Rabbit lats2 Polyclonal Antibody | anti-lats2 antibody

lats2 Antibody

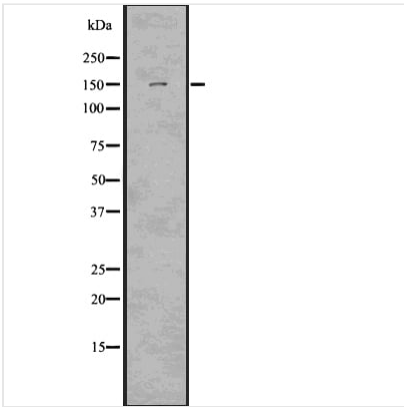
| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                              |
|-----------|--------|-------------------|-------------------------------------------|
| AAA327186 | Rabbit | Human, Mouse, Rat | ELISA, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

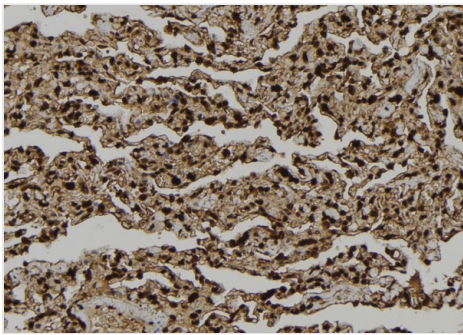
lats2; Polyclonal Antibody; lats2 Antibody; FLJ13161; Kinase phosphorylated during mitosis protein; KPM; Large tumor suppressor homolog 2; Large tumor suppressor homolog 2 Drosophila; Large tumor suppressor kinase 2; LATS large tumor suppressor Drosophila homolog 2; LATS large tumor suppressor homolog 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, Rat                                                                                                                                                                                                                                                            |
| Clonality                                       | Polyclonal                                                                                                                                                                                                                                                                   |
| Isotype                                         | IgG                                                                                                                                                                                                                                                                          |
| Specificity                                     | lats2 antibody detects endogenous levels of total lats2                                                                                                                                                                                                                      |
| Purity/Purification                             | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.                                                                                                                                                                                |
| Form/Format                                     | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.                                                                                                                                                                                |
| Concentration                                   | 1mg/ml (varies by lot)                                                                                                                                                                                                                                                       |
| Sequence Length                                 | 1088                                                                                                                                                                                                                                                                         |
| Applicable Applications for anti-lats2 antibody | ELISA, IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                                                                                         |
| Immunogen                                       | A synthesized peptide derived from human lats2                                                                                                                                                                                                                               |
| Subcellular Location                            | Cytoplasm > Cytoskeleton > Centrosome. Cytoplasm. Cytoplasm > Cytoskeleton > Spindle Pole. Co-localizes with STK6 at the centrosomes during interphase, early prophase and cytokinesis. Migrates to the spindle poles during mitosis, and to the midbody during cytokinesis. |
| Tissue Specificity                              | Expressed at high levels in heart and skeletal muscle and at lower levels in all other tissues examined.                                                                                                                                                                     |
| Conjugation                                     | Unconjugated                                                                                                                                                                                                                                                                 |
| Preparation and Storage                         | Store at -20 degree C. Stable for 12 months from date of receipt.                                                                                                                                                                                                            |



**WB (Western Blot)**  
Western blot analysis of lats2 using HepG2 whole cell lysates



**IHC (Immunohistochemistry)**  
AAA327186 at 1/100 staining Human lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-lats2 antibody</b> | <p>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 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.</p> <p>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 SNAI1.</p> <p>Post-translational Modifications: Autophosphorylated and phosphorylated during M-phase and the G1/S-phase of the cell cycle. Phosphorylated and activated by STK3/MST2.</p> <p>Similarity: Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family.</p> |
|------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                         |
|----------------------------------|-----------------------------------------|
| NCBI GI #                        | 126507091                               |
| NCBI GeneID                      | 26524                                   |
| NCBI Accession #                 | NP_055387.2                             |
| NCBI GenBank Nucleotide #        | NM_014572.2                             |
| UniProt Accession #              | Q9NRM7; Q9P2X1; B1AM47                  |
| Molecular Weight                 | Observed: 150 kDa<br>Predicted: 121 kDa |
| NCBI Official Full Name          | serine/threonine-protein kinase LATS2   |
| 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    | LATS2                                 |

**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-immunohistochemistry-western-blot-elisa/327186>