

**Anti-LATS2 Antibody**  
**Catalog # AP54116****Specification**

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**Anti-LATS2 Antibody - Product Information**

Application	WB, IHC, IF
Primary Accession	<a href="#">Q9NRM7</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	120136

**Anti-LATS2 Antibody - Additional Information****Gene ID** 26524**Other Names**

KPM; Serine/threonine-protein kinase LATS2; Kinase phosphorylated during mitosis protein; Large tumor suppressor homolog 2; Serine/threonine-protein kinase kpm; Warts-like kinase

**Target/Specificity**

Recognizes endogenous levels of LATS2 protein.

**Dilution**

WB~~1:1000  
IHC~~1:100~500  
IF~~1:50~200

**Format**

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

**Storage**

Store at -20 °C. Stable for 12 months from date of receipt

**Anti-LATS2 Antibody - Protein Information****Name** LATS2 {ECO:0000312|EMBL:BAA92381.1}**Synonyms** 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 apoptosis (PubMed:<a href="http://www.uniprot.org/citations/18158288" target="\_blank">18158288</a>, PubMed:<a href="http://www.uniprot.org/citations/26437443" target="\_blank">26437443</a>, PubMed:<a href="http://www.uniprot.org/citations/26598551" target="\_blank">26598551</a>, PubMed:<a href="http://www.uniprot.org/citations/34404733" target="\_blank">34404733</a>). 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 (PubMed: [26437443](http://www.uniprot.org/citations/26437443), PubMed: [26598551](http://www.uniprot.org/citations/26598551), PubMed: [34404733](http://www.uniprot.org/citations/34404733)). Phosphorylation of YAP1 by LATS2 inhibits its translocation into the nucleus to regulate cellular genes important for cell proliferation, cell death, and cell migration (PubMed: [26598551](http://www.uniprot.org/citations/26598551), PubMed: [34404733](http://www.uniprot.org/citations/34404733)). Also phosphorylates YAP1 in response to cell contact inhibition-driven WWP1 ubiquitination of AMOTL2, which results in LATS2 activation (PubMed: [34404733](http://www.uniprot.org/citations/34404733)). Acts as a tumor suppressor which plays a critical role in centrosome duplication, maintenance of mitotic fidelity and genomic stability (PubMed: [10871863](http://www.uniprot.org/citations/10871863)). Negatively regulates G1/S transition by down-regulating cyclin E/CDK2 kinase activity (PubMed: [12853976](http://www.uniprot.org/citations/12853976)). Negative regulator of the androgen receptor (PubMed: [15131260](http://www.uniprot.org/citations/15131260)). Phosphorylates SNAIL in the nucleus leading to its nuclear retention and stabilization, which enhances its epithelial- mesenchymal transition and tumor cell invasion/migration activities (PubMed: [21952048](http://www.uniprot.org/citations/21952048)). This tumor-promoting activity is independent of its effects upon YAP1 or WWTR1/TAZ (PubMed: [21952048](http://www.uniprot.org/citations/21952048)). Acts as an activator of the NLRP3 inflammasome by mediating phosphorylation of 'Ser-265' of NLRP3 following NLRP3 palmitoylation, promoting NLRP3 activation by NEK7 (PubMed: [39173637](http://www.uniprot.org/citations/39173637)).

#### **Cellular Location**

Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm. Cytoplasm, cytoskeleton, spindle pole Nucleus. Note=Colocalizes with AURKA at the centrosomes during interphase, early prophase and cytokinesis. Migrates to the spindle poles during mitosis, and to the midbody during cytokinesis Translocates to the nucleus upon mitotic stress by nocodazole treatment

#### **Tissue Location**

Expressed at high levels in heart and skeletal muscle and at lower levels in all other tissues examined

### **Anti-LATS2 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **Anti-LATS2 Antibody - Images**

### **Anti-LATS2 Antibody - Background**

Rabbit polyclonal antibody to LATS2