

# LATS1 Monoclonal antibody

Catalog Number: 66569-1-Ig

Featured Product

## Basic Information

<b>Catalog Number:</b> 66569-1-Ig	<b>GenBank Accession Number:</b> BC015665	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 700 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 9113	<b>CloneNo.:</b> 2A8F1
<b>Source:</b> Mouse	<b>Full Name:</b> LATS, large tumor suppressor, homolog 1 (Drosophila)	<b>Recommended Dilutions:</b> WB 1:2000-1:10000
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 15 kDa, 127 kDa	
<b>Immunogen Catalog Number:</b> AG11140	<b>Observed MW:</b> 140-150 kDa, 120 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> Human	<b>WB :</b> T-47D cells, HeLa cells, HEK-293 cells, HepG2 cells, MCF-7 cells, K-562 cells, Jurkat cells

## Background Information

LATS1(Large tumor suppressor homolog 1) is also named as WARTS and belongs to the AGC Ser/Thr protein kinase family. The gene encodes a highly conserved (from fly to human) protein kinase that plays a crucial role in the prevention of tumor formation by controlling the progression of mitosis. The expression of both long(170 kDa) and short lats1 isoforms(120 kDa) in vertebrate retinal cells raises the possibility that these lats1 proteins may act as negative key regulators of the cell cycle each of them performing a unique role (PMID:15777619). In mammalian cells, LATS1 was phosphorylated in a cell cycle-dependent manner and complexed with CDC2 in early mitosis (PMID:9988268). LATS1 also can be detected as 120 kDa and 140-150 kDa, and play a key role in the regulation of Hippo pathway (PMID: 27940445).

## Storage

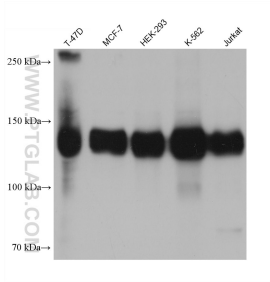
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

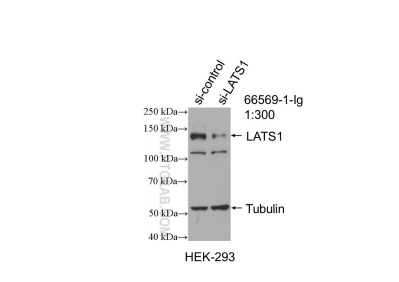
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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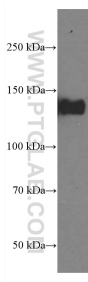
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66569-1-Ig (LATS1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



WB result of LATS1 antibody (66569-1-Ig; 1:300; incubated at room temperature for 1.5 hours) with sh-Control and sh-LATS1 transfected HepG2 cells.



HepG2 cells were subjected to SDS PAGE followed by western blot with 66569-1-Ig (LATS1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.