

# LATS1

## Monoclonal ANTIBODY

Catalog Number: 66569-1-Ig

Featured Product

### Basic Information

**Catalog Number:**  
66569-1-Ig

**Size:**  
105 µg/150 µl

**Source:**  
Mouse

**Isotype:**  
IgG1

**Purification Method:**  
Protein G purification

**Immunogen Catalog Number:**  
AG11140

**GenBank Accession Number:**  
BC015665

**GeneID (NCBI):**  
9113

**Full Name:**  
LATS, large tumor suppressor, homolog 1  
(Drosophila)

**Calculated MW:**  
15 kDa; 127 kDa

**Observed MW:**  
140-150 kDa, 120 kDa

**Recommended Dilutions:**  
WB 1:1000-1:3000

### Applications

**Tested Applications:**  
WB, ELISA

**Species Specificity:**  
Human

**Positive Controls:**

**WB :** HepG2 cells; HeLa cells, HEK-293 cells, T-47D 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 (PMD: 15777619). In mammalian cells, LATS1 was phosphorylated in a cell cycle-dependent manner and complexed with CDC2 in early mitosis (PMD: 9988268). LATS1 also can be detected as 120 kDa and 140-150 kDa, and play a key role in the regulation of Hippo pathway (PMD: 27940445).

### Notable Publications

Author	Pubmed ID	Journal	Application
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### Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

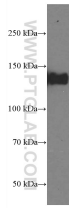
For technical support and original validation data for this product please contact:

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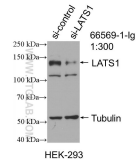
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## Selected Validation Data



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



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