

## LATS1/2 (Phospho Ser909) Rabbit pAb

CatalogNo: YP1382 **Orthogonal Validated** 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, ELISA, IHC

#### MW

- 140kD (Observed)

#### Isotype

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**WB 1:500-2000**

**IHC 1:50-300**

**ELISA 1:2000-20000**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** Synthesized phospho peptide around human LATS1/2 (Ser909)

**Specificity** This antibody detects endogenous levels of Human LATS1/2 (phospho-Ser909). The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites): AHsLV

## Target Information

**Gene name** LATS1 WARTS

**Protein Name** Serine/threonine-protein kinase LATS1 (Large tumor suppressor homolog 1) (WARTS protein kinase) (h-warts)

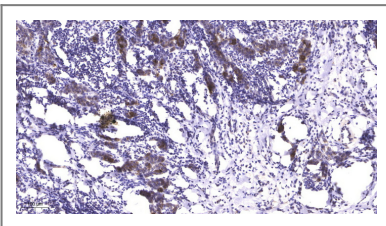
Organism	Gene ID	UniProt ID
Human	<a href="#">9113</a> ;	<a href="#">O95835</a> ;
Mouse	<a href="#">16798</a> ;	<a href="#">Q8BYR2</a> ;

**Cellular Localization** Cytoplasm , cytoskeleton , microtubule organizing center , centrosome . Cytoplasm , cytoskeleton , spindle . Midbody . Cytoplasm , cytoskeleton , microtubule organizing center , spindle pole body . Localizes to the centrosomes throughout interphase but migrates to the mitotic apparatus , including spindle pole bodies , mitotic spindle , and midbody , during mitosis. .

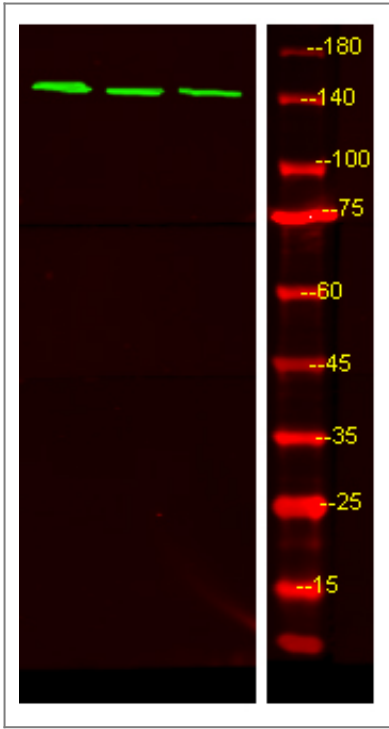
**Tissue specificity** Expressed in all adult tissues examined except for lung and kidney.

**Function** Catalytic activity:ATP + a protein = ADP + a phosphoprotein. ,cofactor:Magnesium. ,Function:Tumor suppressor which plays a critical role in maintenance of ploidy through its actions in both mitotic progression and the G1 tetraploidy checkpoint. Negatively regulates G2/M transition by down-regulating CDC2 kinase activity. Involved in the control of p53 expression. Affects cytokinesis by regulating actin polymerization through negative modulation of LIMK1. May also play a role in endocrine function. ,PTM:Autophosphorylated and phosphorylated during M-phase of the cell cycle. Phosphorylated by STK3 at Ser-909 and Thr-1079 , which results in its activation. Phosphorylated upon DNA damage , probably by ATM or ATR. ,similarity:Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. ,similarity:Contains 1 AGC-kinase C-terminal domain. ,similarity:Contains 1 protein kinase domain. ,similarity:Contains 1 UBA domain. ,subcellular location:Localizes to the centrosomes throughout interphase but migrates to the mitotic apparatus , including spindle pole bodies , mitotic spindle , and midbody , during mitosis. ,subunit:Complexes with CDC2 in early mitosis. LATS1-associated CDC2 has no mitotic cyclin partner and no apparent kinase activity. Binds phosphorylated ZYX , locating this protein to the mitotic spindle and suggesting a role for actin regulatory proteins during mitosis. Binds to and colocalizes with LIMK1 at the actomyosin contractile ring during cytokinesis. ,tissue specificity:Expressed in all adult tissues examined except for lung and kidney. ,

## Validation Data



Immunohistochemical analysis of paraffin-embedded human Breast cancer. 1, Antibody was diluted at 1:200 (4°C overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200 (room temperature, 45min).



Western Blot analysis of HeLa treated or untreated by LPS lysis, using primary antibody at 1:1000 dilution. Secondary antibody (catalog#:RS23920) was diluted at 1:10000

## Contact information

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