

LATS1/2 (Phospho Thr1079/1041) Antibody

CatalogNo: YP1222 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, ELISA

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

ELISA 1:10000-20000

Basic Information

Clonality Polyclonal

Immunogen Information

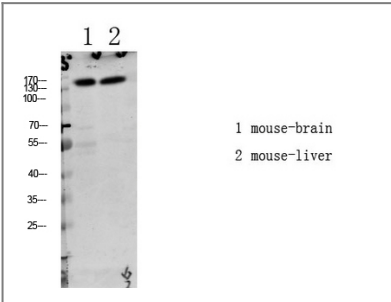
Immunogen Synthesized phospho derived from human LATS1/2 (Phospho-Thr1079/1041)

Specificity This antibody detects endogenous levels of LATS1/2 only when phosphorylated at Thr1079/1041. 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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): EftFR

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	9113 ;	O95835 ;
	Mouse	16798 ;	Q8BYR2 ;
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



Western blot analysis of various lysate, antibody was diluted at 1000. Secondary antibody (catalog#:RS0002) was diluted at 1:20000

| Contact information

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Thr1079/1041)
Antibody**

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