

LATS1 (Phospho Thr1079) Rabbit pAb

CatalogNo: YP1383

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse

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 (Thr1079)

Specificity This antibody detects endogenous levels of Human Mouse LATS1 (phospho-Thr1079)

Target Information

Gene name LATS1 WARTS

Protein Name LATS1 (Thr1079)

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

| Contact information

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