

phospho-LATS1-T1079/LATS2-T1041 Rabbit pAb

Catalog No.: AP0880

Basic Information

Observed MW

Refer to figures

Calculated MW

76kDa/126kDa

Category

Primary antibody

Applications

WB

Cross-Reactivity

Human, Mouse

Background

The protein encoded by this gene is a putative serine/threonine kinase that localizes to the mitotic apparatus and complexes with cell cycle controller CDC2 kinase in early mitosis. The protein is phosphorylated in a cell-cycle dependent manner, with late prophase phosphorylation remaining through metaphase. The N-terminal region of the protein binds CDC2 to form a complex showing reduced H1 histone kinase activity, indicating a role as a negative regulator of CDC2/cyclin A. In addition, the C-terminal kinase domain binds to its own N-terminal region, suggesting potential negative regulation through interference with complex formation via intramolecular binding. Biochemical and genetic data suggest a role as a tumor suppressor. This is supported by studies in knockout mice showing development of soft-tissue sarcomas, ovarian stromal cell tumors and a high sensitivity to carcinogenic treatments.

Recommended Dilutions

WB 1:500 - 1:2000

Immunogen Information

Gene ID

9113/26524

Swiss Prot

O95835/Q9NRM7

Immunogen

A phospho specific peptide corresponding to residues surrounding T1079 of human LATS1.

Synonyms

LATS1; WARTS; wts; phospho-LATS1-T1079/LATS2-T1041

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.