

LATS1/2 (Phospho-Thr1079/1041) Antibody

Cat No.: ES8881

For research use only

Overview

Product Name LATS1/2 (Phospho-Thr1079/1041) Antibody

Host species Rabbit
Applications WB;ELISA

Species Cross-Reactivity Human; Mouse; Rat

Recommended dilutions WB 1:500-2000, ELISA 1:10000-20000

Immunogen Synthesized phospho derived from human LATS1/2

(Phospho-Thr1079/1041)

Specificity This detects endogenous levels of LATS1/2

(Phospho-Thr1079/1041)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and

0.02% sodium azide.

Storage Store at -20°C. Avoid repeated freeze-thaw cycles.

Protein Name Serine/threonine-protein kinase LATS1 (EC 2.7.11.1)

(Large tumor suppressor homolog 1) (WARTS

protein kinase) (h-warts)

Gene Name LATS1 WARTS

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 t

Purification The antibody was affinity-purified from rabbit

antiserum by affinity-chromatography using

epitope-specific immunogen.

Clonality Polyclonal
Concentration 1 mg/ml
Observed band 140kD
Human Gene ID 9113
Human Swiss-Prot Number 095835

Alternative Names Serine/threonine-protein kinase LATS1 (EC 2.7.11.1)

(Large tumor suppressor homolog 1) (WARTS

protein kinase) (h-warts)



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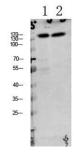
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Background

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 treatmen

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



1 mouse-brain 2 mouse-liver

