



LATS1/2 (phospho Thr1079/1041) Polyclonal Antibody

Catalog NoBYab-00235IsotypeIgGReactivityHuman;MouseApplicationsIHC;IF;ELISAGene NameLATS1/LATS2Protein NameSerine/threonine-protein kinase LATS1/2ImmunogenThe antiserum was produced against synthesized peptide derived from LATS1/2 around the phosphorylation site of Thr1079/1041. AA range:10SpecificityPhospho-LATS1/2 (T1079/1041) Polyclonal Antibody detects endogene of LATS1/2 protein only when phosphorylated at T1079/1041.FormulationLiquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium at affinity-chromatography using epitope-specific immunogen.	
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Dilution IHC: 1/100 - 1/300. ELISA: 1/20000 IF 1:50-200	
Concentration 1 mg/ml	
Purity ≥90%	
Storage Stability -20°C/1 year	
Synonyms LATS1; WARTS; Serine/threonine-protein kinase LATS1; Large tumor s homolog 1; WARTS protein kinase; h-warts; LATS2; KPM;	
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	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.,
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
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

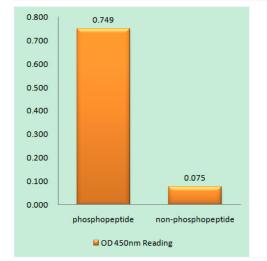
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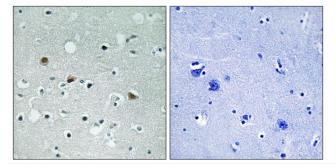
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Products Images



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using LATS1/2 (Phospho-Thr1079/1041) Antibody



Immunohistochemistry analysis of paraffin-embedded human brain, using LATS1/2 (Phospho-Thr1079/1041) Antibody. The picture on the right is blocked with the phospho peptide.

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