Product Name: LATS1/2 Rabbit Polyclonal Antibody

Catalog #: APRab13235



Summary

Production Name LATS1/2 Rabbit Polyclonal Antibody

Description Rabbit Polyclonal Antibody

Host Rabbit

Application IHC,WB,ELISA **Reactivity** Human,Mouse

Performance

ConjugationUnconjugatedModificationUnmodified

Isotype IgG

ClonalityPolyclonalFormLiquid

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw

cycles.

Buffer Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.

Purification Affinity purification

Immunogen

Alternative Names

Storage

Gene Name LATS1/LATS2

LATS1; WARTS; Serine/threonine-protein kinase LATS1; Large tumor suppressor

homolog 1; WARTS protein kinase; h-warts; LATS2; KPM; Serine/threonine-protein

kinase LATS2; Kinase phosphorylated during mitosis protein; Large tumor suppressor

ho

Gene ID 9113/26524

O95835/Q9NRM7.The antiserum was produced against synthesized peptide derived SwissProt ID

from human LATS1/2. AA range:1041-1090

Application

Dilution Ratio WB 1:500 - 1:2000. IHC-p: 1:100-300 ELISA: 1:20000.

Molecular Weight 130-140kD

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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 treatmencatalytic 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 AGCkinase 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.,

Research Area

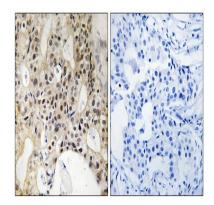
Image Data

Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

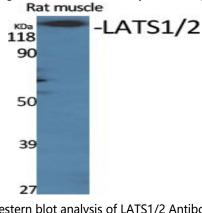
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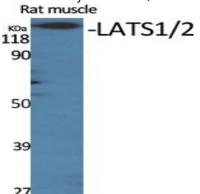




Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using LATS1/2 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of LATS1/2 Antibody



Western Blot analysis of various cells using LATS1/2 Polyclonal Antibody diluted at 1: 500

Note

For research use only.