

AP1517

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phospho-LATS1-T1079+LATS2-T1041 Rabbit mAb

Catalog No.: AP1517

Recombinant

2 Publications

Basic Information

Observed MW

140kDa

Calculated MW

76kDa/126kDa

Category

Monoclonal Antibody

Applications

WB,IHC-P,IF/ICC,ELISA

Cross-Reactivity

Human,Mouse,Rat

CloneNo number

ARC65149

Recommended Dilutions

WB 1:1000 - 1:2000

IF/ICC 1:200 - 1:800

IHC-P 1:50 - 1:200

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Contact



www.abclonal.com

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.

Immunogen Information

Gene ID

9113/26524

Swiss Prot

O95835/Q9NRM7

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

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

Product Information

Source

Rabbit

Isotype

IgG

Purification

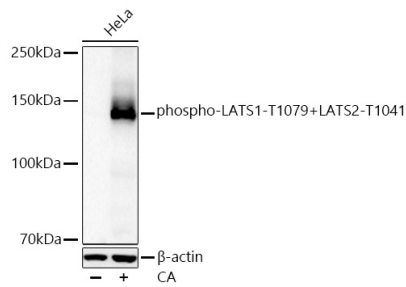
Affinity purification

Storage

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

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3

Validation Data



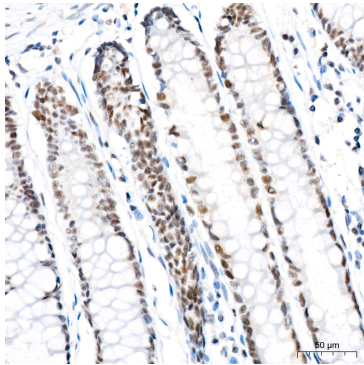
Western blot analysis of lysates from HeLa cells using phospho-LATS1-T1079+LATS2-T1041 Rabbit mAb (AP1517) at 1:1000 dilution incubated overnight at 4°C. HeLa cells were treated with CA (100 nM) at 37°C for 30 minutes after serum-starvation overnight. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

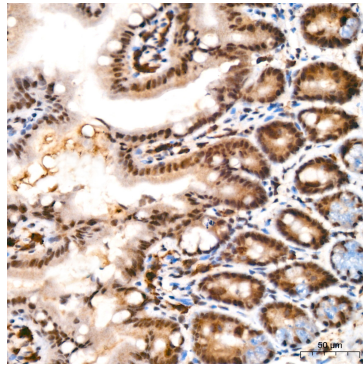
Blocking buffer: 3 % nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

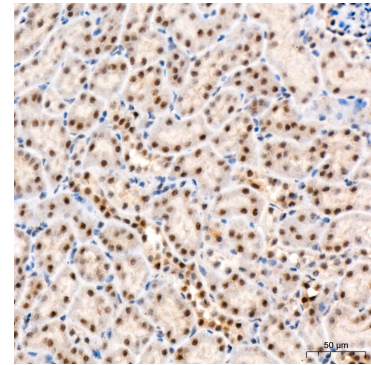
Exposure time: 60s.



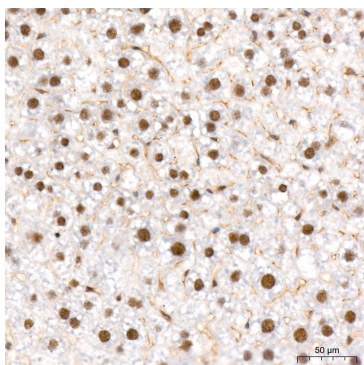
Immunohistochemistry analysis of paraffin-embedded Human colon tissue using phospho-LATS1-T1079+LATS2-T1041 Rabbit mAb (AP1517) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse intestine tissue using phospho-LATS1-T1079+LATS2-T1041 Rabbit mAb (AP1517) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



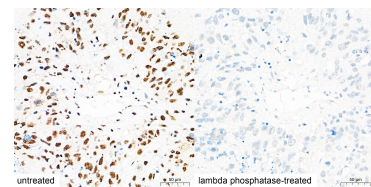
Immunohistochemistry analysis of paraffin-embedded Mouse kidney tissue using phospho-LATS1-T1079+LATS2-T1041 Rabbit mAb (AP1517) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse testis tissue using phospho-LATS1-T1079+LATS2-T1041 Rabbit mAb (AP1517) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.

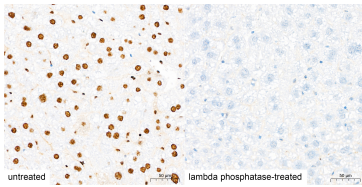


Immunohistochemistry analysis of paraffin-embedded Rat colon tissue using phospho-LATS1-T1079+LATS2-T1041 Rabbit mAb (AP1517) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.

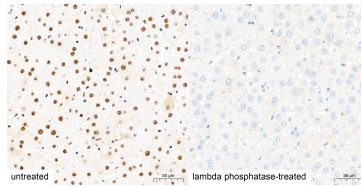


Immunohistochemistry analysis of paraffin-embedded Human lung cancer tissue, Untreated (left) and lambda phosphatase-treated (right), using phospho-LATS1-T1079+LATS2-T1041 Rabbit mAb (AP1517) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.

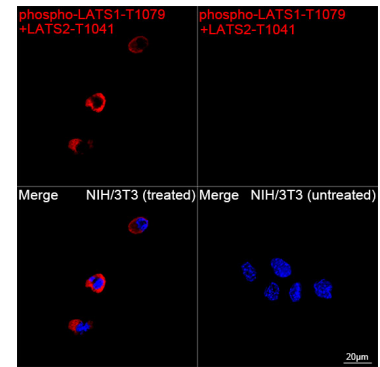
Validation Data



Immunohistochemistry analysis of paraffin-embedded Mouse liver tissue, Untreated (left) and lambda phosphatase-treated (right), using phospho-LATS1-T1079+LATS2-T1041 Rabbit mAb (AP1517) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat liver tissue, Untreated (left) and lambda phosphatase-treated (right), using phospho-LATS1-T1079+LATS2-T1041 Rabbit mAb (AP1517) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



Confocal imaging of NIH/3T3 cells (treated with CA) and NIH/3T3 cells (untreated) cells using phospho-LATS1-T1079+LATS2-T1041 Rabbit mAb (AP1517, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.