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phospho-LATS1-T1079+LATS2-T1041 Rabbit mAb

Catalog No.: AP1517 Recombinant 4 Publications

Basic Information

Observed MW
140kDa

Calculated MW
76kDa/126kDa

Category
Primary antibody

Applications
WB,IF/ICC,IHC-P,ELISA

Cross-Reactivity
Human, Mouse, Rat

CloneNo number
ARC65149

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	1:1000 - 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.

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

Contact

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Product Information

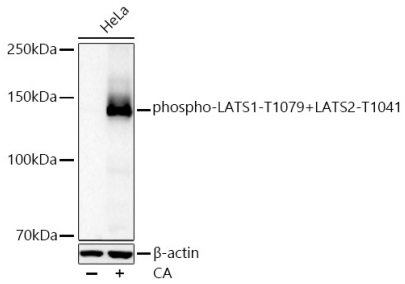
Source
Rabbit

Isotype
IgG

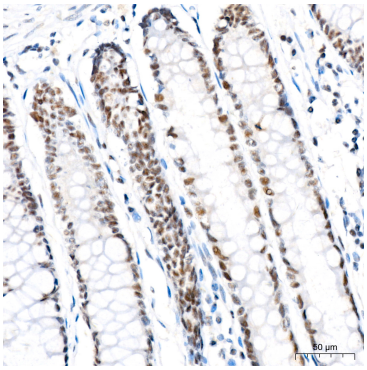
Purification
Affinity purification

Storage
Store at -20℃. 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

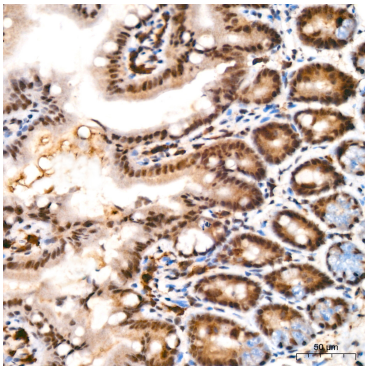
Validation Data



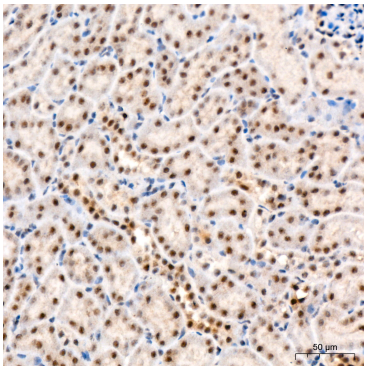
Western blot analysis of lysates from HeLa cells using phospho-LATS1-T1079+LATS2-T1041 Rabbit mAb (AP1517) at 1:1000 dilution incubated overnight at 4℃. HeLa cells were treated with CA (100 nM) at 37℃ for 30 minutes after serum-starvation overnight.
Secondary antibody: HRP-conjugated Goat anti-Rabbit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



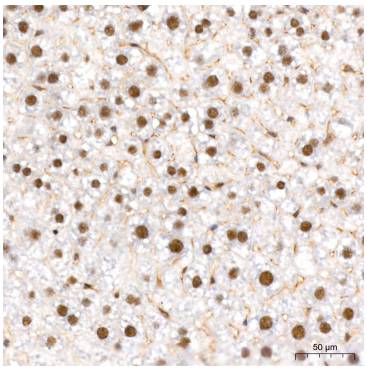
Immunohistochemistry analysis of paraffin-embedded Human colon tissue using phospho-LATS1-T1079+LATS2-T1041 Rabbit mAb (AP1517) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



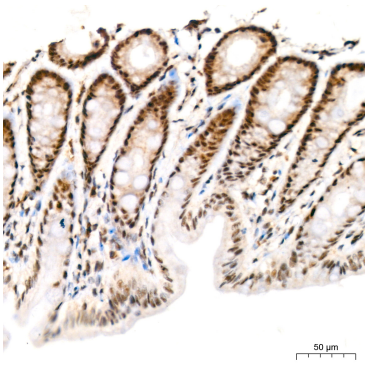
Immunohistochemistry analysis of paraffin-embedded Mouse intestin tissue using phospho-LATS1-T1079+LATS2-T1041 Rabbit mAb (AP1517) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



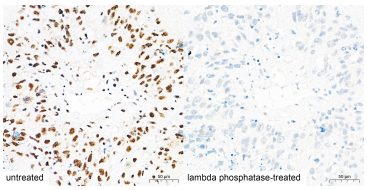
Immunohistochemistry analysis of paraffin-embedded Mouse kidney tissue using phospho-LATS1-T1079+LATS2-T1041 Rabbit mAb (AP1517) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.



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.

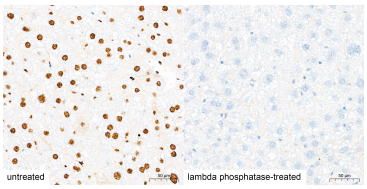


Immunohistochemistry analysis of paraffin-embedded Rat colon tissue using phospho-LATS1-T1079+LATS2-T1041 Rabbit mAb (AP1517) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0) prior to IHC staining.

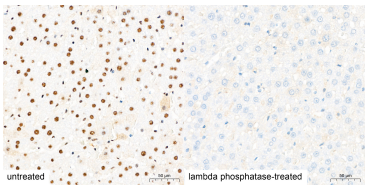


Immunohistochemistry analysis of paraffin-embedded Human lung cancer tissue, Untreated (left) and lambda phosphatase-treated (right), using phospho-LATS1-T1079+LATS2-T1041 Rabbit mAb (AP1517) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate buffer (pH 6.0)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

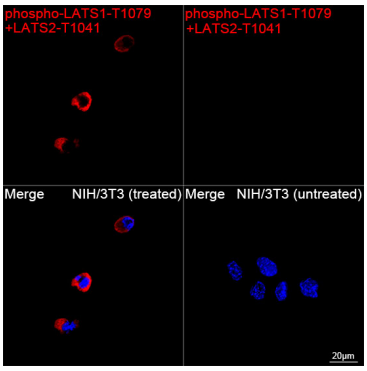
Validation Data



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.