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phospho-LATS1-T1079+LATS2-T1041 Rabbit mAb

Catalog No.: AP1517 Recombinant

Basic Information

Observed MW
140kDa

Calculated MW
76kDa/126kDa

Category
Primary antibody

Applications
ELISA,WB,IHC-P

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	1:500 - 1:1000
IHC-P	1:50 - 1:200

Immunogen Information

Gene ID
9113/26524

Swiss Prot
O95835/Q9NRM7

Immunogen
A synthetic phosphorylated peptide around T1079 and T1041 of human LATS1/ LATS2 (NP_004681.1).

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

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Product Information

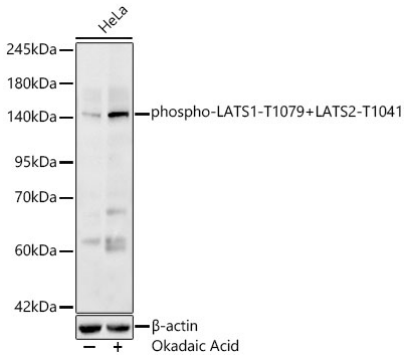
Source
Rabbit

Isotype
IgG

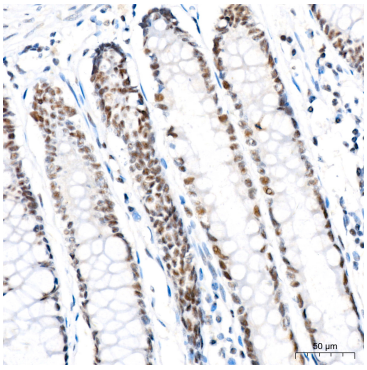
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.05% proclin300,50% glycerol,pH7.3.

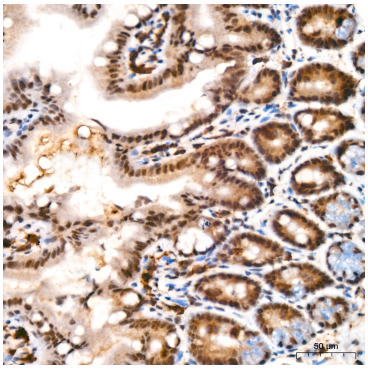
Validation Data



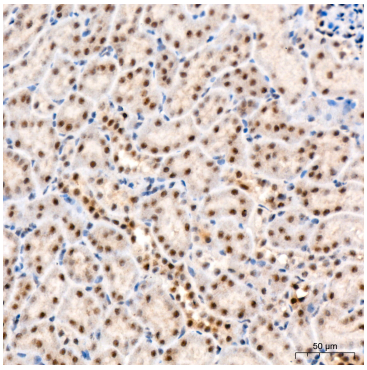
Western blot analysis of lysates from HeLa cells using phospho-LATS1-T1079+LATS2-T1041 Rabbit mAb (AP1517) at 1:1000 dilution. HeLa cells were treated by Okadaic Acid (100 nM) at 37℃ for 1 hour.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 180s.



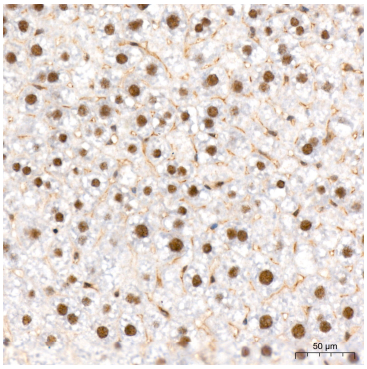
Immunohistochemistry analysis of paraffin-embedded Human colon tissue using phospho-LATS1-T1079+LATS2-T1041 Rabbit mAb (AP1517) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



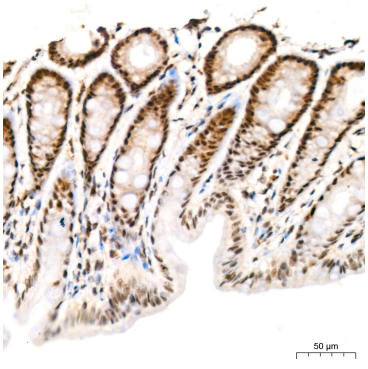
Immunohistochemistry analysis of paraffin-embedded Mouse intestin tissue using phospho-LATS1-T1079+LATS2-T1041 Rabbit mAb (AP1517) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



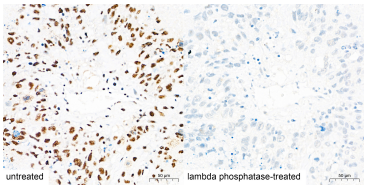
Immunohistochemistry analysis of paraffin-embedded Mouse kidney tissue using phospho-LATS1-T1079+LATS2-T1041 Rabbit mAb (AP1517) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



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 Bufferr (pH 6.0) prior to IHC staining.

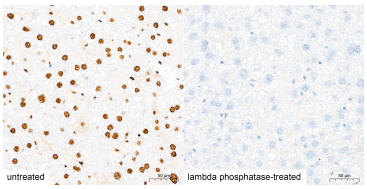


Immunohistochemistry analysis of paraffin-embedded Rat colon tissue using phospho-LATS1-T1079+LATS2-T1041 Rabbit mAb (AP1517) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.

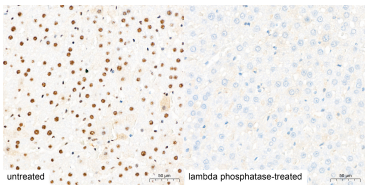


Immunohistochemistry analysis of paraffin-embedded Human lung cancer tissue, Untreated (left) and lambda phosphatase-treated (right), using phospho-LATS1-T1079+LATS2-T1041 Rabbit mAb (AP1517) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0)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