

**LATS1/WARTS Rabbit mAb****Catalog No.: A29010****Recombinant****Basic Information****Observed MW**

140 kDa

**Calculated MW**

127kDa/76kDa

**Category**

Monoclonal Antibodies

**Applications**

WB, ELISA

**Cross Reactivity**

Human, Mouse

**Clone No.**

ARC3828

**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** 1:2000 - 1:5000**ELISA**

Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000), a sequential dilution method is strongly recommended to ensure measurement accuracy.

**Immunogen Information****Gene ID**

9113

**Swiss-Prot**

O95835

**Immunogen**

This information is considered to be commercially sensitive.

**Synonyms**

wts; WARTS

**Contact** | 400-999-6126 | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn) | [www.abclonal.com.cn](http://www.abclonal.com.cn)**Product Information****Source**

Rabbit

**Isotype**

IgG

**Purity**

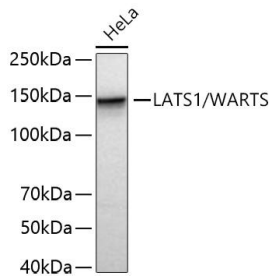
Affinity purification

**Storage**

Store at -20°C

## Validation Data

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Western blot analysis of lysates from HeLa cells using LATS1/WARTS Rabbit mAb (A29010) at 1:3000 dilution incubated overnight at 4°C.

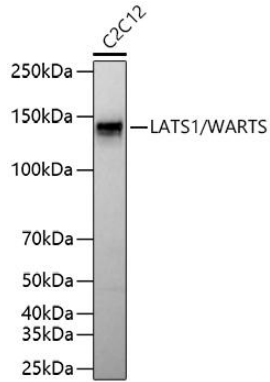
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25 µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

Exposure time: 90 s.



Western blot analysis of lysates from C2C12 cells using LATS1/WARTS Rabbit mAb (A29010) at 1:5000 dilution incubated overnight at 4°C.

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: 45 s.