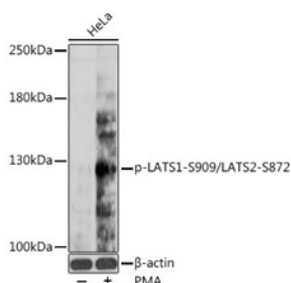


| | |
|--------------------------|---|
| Cat. No: | ABP-0904 |
| Conjugate: | Unconjugated |
| Size: | 100 ug |
| Clone: | Poly |
| Concentration: | 1mg/ml |
| Host: | Rb |
| Isotype: | IgG |
| Immunogen: | A phospho specific peptide corresponding to residues surrounding S909 of human LATS1. |
| Reactivity: | Hu |
| Applications: | WB 1:1000 |
| Molecular Weight: | 76kDa/126kDa |

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..

| | |
|-----------------|--|
| Form: | liquid |
| Buffer: | PBS with 0.02% sodium azide, 50% glycerol, pH7.3 |
| Storage: | Store at 2-8°C. Do not freeze. For longer term store at: -20°C |



Western blot analysis of extracts of HeLa cells, using phospho-LATS1-S909/LATS2-S872 antibody at 1:1000 dilution. HeLa cells were treated by PMA/TPA (200 nM) at 37°C for 15 minutes after serum-starvation overnight. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane.

Blocking buffer: 3% BSA. Detection: ECL
West Pico. Exposure time: 90s.

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