

Datasheet for ABIN391033  
**anti-LATS1 antibody (N-Term)**

2 Images

1 Publication

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## Overview

|                      |  |
|----------------------|--|
| Quantity:            | 400 µL   |
| Target:              | LATS1  |
| Binding Specificity: | AA 1-30, N-Term  |
| Reactivity:          | Human, Mouse, Rat  |
| Host:                | Rabbit   |
| Clonality:           | Polyclonal   |
| Conjugate:           | This LATS1 antibody is un-conjugated   |
| Application:         | Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) |

## Product Details

|               |   |
|---------------|---|
| Immunogen:    | This LATS1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human LATS1. |
| Clone:        | RB3029  |
| Isotype:      | Ig Fraction   |
| Purification: | This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.   |

## Target Details

|                   |  |
|-------------------|--|
| Target:           | LATS1                                    |
| Alternative Name: | LATS1 ( <a href="#">LATS1 Products</a> ) |

## Target Details

|                   |   |
|-------------------|---|
| 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. |
| Molecular Weight: | 126870  |
| Gene ID:          | 9113  |
| NCBI Accession:   | <a href="#">NP_001257448</a> , <a href="#">NP_004681</a>  |
| UniProt:          | <a href="#">O95835</a>  |
| Pathways:         | <a href="#">Regulation of Actin Filament Polymerization</a> , <a href="#">Maintenance of Protein Location</a>   |

## Application Details

|                    |                             |
|--------------------|-----------------------------|
| Application Notes: | WB: 1:1000. IHC-P: 1:50~100 |
| Restrictions:      | For Research Use only       |

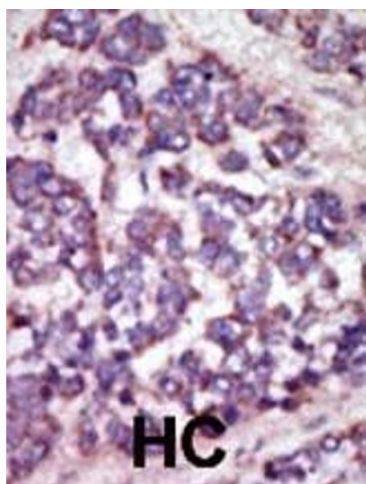
## Handling

|                    |  |
|--------------------|--|
| Format:            | Liquid   |
| Buffer:            | Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.   |
| Preservative:      | Sodium azide   |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                     |
| Storage:           | 4 °C,-20 °C  |
| Storage Comment:   | Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles. |
| Expiry Date:       | 6 months   |

## Publications

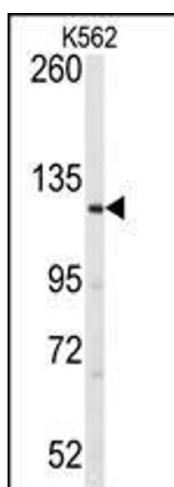
Product cited in: Xu, Han, Epstein, Liu: "Regulation of PDK mRNA by high fatty acid and glucose in pancreatic islets." in: **Biochemical and biophysical research communications**, Vol. 344, Issue 3, pp. 827-33, (2006) ([PubMed](#)).

## Images



### Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated. BC = breast carcinoma, HC = hepatocarcinoma.



### Western Blotting

**Image 2.** Western blot analysis of anti-LATS1 Antibody (N-term) (ABIN391033 and ABIN2841200) in K562 cell line lysates (35 µg/lane). LATS1 (arrow) was detected using the purified Pab.