

Datasheet for ABIN6719580  
**anti-LATS1 antibody (AA 637-698)**



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## Overview

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| Quantity:            | 100 µg                                                                                                                                                         |
| Target:              | LATS1                                                                                                                                                          |
| Binding Specificity: | AA 637-698                                                                                                                                                     |
| Reactivity:          | Human, Mouse, Rat                                                                                                                                              |
| Host:                | Rabbit                                                                                                                                                         |
| Clonality:           | Polyclonal                                                                                                                                                     |
| Conjugate:           | This LATS1 antibody is un-conjugated                                                                                                                           |
| Application:         | Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunocytochemistry (ICC), Flow Cytometry (FACS) |

## Product Details

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| Purpose:                    | Anti-LATS1 Antibody Picoband®                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Immunogen:                  | E. coli-derived human LATS1 recombinant protein (Position: Q637-A698).                                                                                                                                                                                                                                                                                                                                                                         |
| Isotype:                    | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Cross-Reactivity (Details): | No cross-reactivity with other proteins.                                                                                                                                                                                                                                                                                                                                                                                                       |
| Characteristics:            | Anti-LATS1 Antibody Picoband® (ABIN6719580). Tested in ELISA, Flow Cytometry, IHC, IHC-F, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance. |
| Purification:               | Immunogen affinity purified.                                                                                                                                                                                                                                                                                                                                                                                                                   |

## Target Details

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| Target:           | LATS1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Alternative Name: | LATS1 ( <a href="#">LATS1 Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Background:       | <p>Synonyms: Serine/threonine-protein kinase LATS1, Large tumor suppressor homolog 1, WARTS protein kinase, h-warts, LATS1</p> <p>Tissue Specificity: Expressed in all adult tissues examined except for lung and kidney.</p> <p>Background: Serine/threonine-protein kinase LATS1 is an enzyme that in humans is encoded by the LATS1 gene. It is mapped to 6q25.1. 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.</p> |
| Molecular Weight: | 150 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Gene ID:          | 9113                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| UniProt:          | <a href="#">O95835</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Pathways:         | <a href="#">Regulation of Actin Filament Polymerization</a> , <a href="#">Maintenance of Protein Location</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

## Application Details

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| Application Notes: | <p>Western blot, 0.1-0.5 µg/mL</p> <p>Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL</p> <p>Immunohistochemistry (Frozen Section), 0.5-1 µg/mL</p> <p>Immunocytochemistry, 0.5-1 µg/mL</p> <p>Flow Cytometry (Fixed), 1-3 µg/1x10<sup>6</sup> cells</p> <p>ELISA, 0.1-0.5 µg/mL</p> <p>1. Britschgi, A., Duss, S., Kim, S., Couto, J. P., Brinkhaus, H., Koren, S., De Silva, D., Mertz, K. D., Kaup, D., Varga, Z., Voshol, H., Vissieres, A., and 9 others. The Hippo kinases LATS1 and 2 control human breast cell fate via crosstalk with ER-alpha Nature 541: 541-545, 2017. 2. Kemp, C. J. You don't need a backbone to carry a tumour suppressor gene. Nature Genet. 21: 147-148,</p> |
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## Application Details

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**Comment:** Tested Species: In-house tested species with positive results. By Heat: Boiling the paraffin sections in 10mM citrate buffer, pH6.0, for 20mins is required for the staining of formalin/paraffin sections. Other applications have not been tested. Optimal dilutions should be determined by end users.

**Restrictions:** For Research Use only

## Handling

**Format:** Lyophilized

**Reconstitution:** Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

**Concentration:** 500 µg/mL

**Buffer:** Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05 mg NaN<sub>3</sub>.

**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:** Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.