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# Datasheet for ABIN3031593 anti-LATS1 antibody (AA 1-30)

3 Images



#### Overview

Quantity:	0.4 mL
Target:	LATS1
Binding Specificity:	AA 1-30
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LATS1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

## Product Details

Immunogen:	A portion of amino acids 1-30 from the human protein was used as the immunogen for this
	LATS1 antibody.
lsotype:	lg Fraction
Purification:	Purified

### Target Details

Target:	LATS1
Alternative Name:	LATS1 (LATS1 Products)
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

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# Target Details

	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.
UniProt:	095835
Pathways:	Regulation of Actin Filament Polymerization, Maintenance of Protein Location
Application Details	
Application Notes:	Titration of the LATS1 antibody may be required due to differences in protocols and
	secondary/substrate sensitivity.\. Western blot: 1:1000,IHC (Paraffin): 1:50-1:100
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	In 1X PBS, pH 7.4, with 0.09 % 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:	-20 °C
Storage Comment:	Aliquot the LATS1 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw
	cycles.



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#### Immunohistochemistry

**Image 1.** IHC analysis of FFPE human hepatocarcinoma tissue stained with the LATS1 antibody

#### Western Blotting

**Image 2.** Western blot analysis of LATS1 antibody and K562 lysate.

#### Western Blotting

**Image 3.** Western blot analysis of LATS1 antibody and K562 lysate.

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