

Product Name: KD-Validated LATS1 Mouse Oligoclonal Antibody**Catalog #: KVA01094**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB
Reactivity	Human,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG
Clonality	Mouse oligoclonal antibody
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2,500
Molecular Weight	Calculated MW: 126.9kDa

Antigen Information

Gene Name	LATS1
Alternative Names	LATS1; Large Tumor Suppressor Kinase 1; WARTS; LATS (Large Tumor Suppressor, Drosophila) Homolog 1; Serine/Threonine-Protein Kinase LATS1; Large Tumor Suppressor Homolog 1; WARTS Protein Kinase; EC 2.7.11.1; H-Warts; LATS, Large Tumor Suppressor, Homolog 1 (Drosophila); LATS, Large Tumor Suppressor, Homolog 1; EC 2.7.11; Wts
Gene ID	9113.0
SwissProt ID	O95835
Immunogen	Recombinant protein of human LATS1

Background

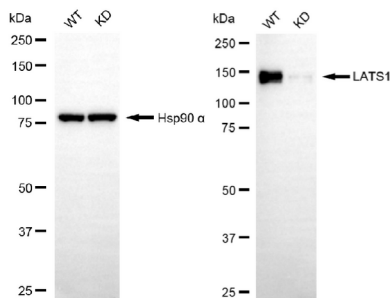
The protein encoded by this gene is a putative serine/threonine kinase that localizes to the mitotic apparatus and complexes

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. [provided by RefSeq, Apr 2017]

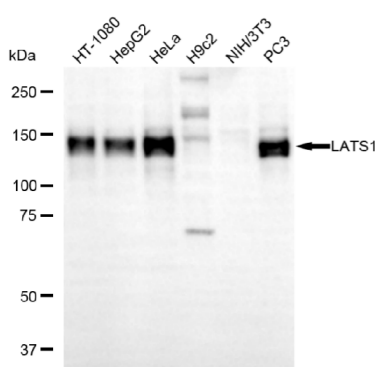
Research Area

Cell Biology,Cancer

Image Data



Western blotting analysis using LATS1 antibody (KVA01094). LATS1 expression in wild-type (WT) and LATS1 knockdown (KD) 293T cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with LATS1 antibody (KVA01094, 1:1,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using LATS1 antibody (KVA01094). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with LATS1 antibody (KVA01094, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.