



Rabbit Anti-Human LATS1 monoclonal antibody, clone 3I54M7 (CABT-L1448)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Specificity	This antibody is predicted to react with Monkey, Horse, Bovine, Sheep
Target	LATS1
Immunogen	Protein corresponding to human LATS1 (aa11-277)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Clone	3I54M7
Purification	Protein A Purified
Conjugate	Unconjugated
Applications	WB
Format	Liquid
Concentration	0.5 mg/ml
Buffer	PBS, pH 7.4
Preservative	0.09% Sodium Azide
Storage	-20°C, Avoid Freeze/Thaw Cycles

BACKGROUND

Introduction

LATS1 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.

Keywords

LATS1;LATS, large tumor suppressor, homolog 1 (Drosophila);LATS (large tumor suppressor, Drosophila) homolog 1;serine/threonine-protein kinase LATS1;WARTS;h-warts;WARTS protein kinase;large tumor suppressor homolog 1;wts

GENE INFORMATION

Entrez Gene ID

[9113](#)

UniProt ID

[O95835](#)