

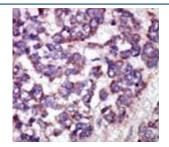
# LATS1 Antibody (F50049)

Catalog No.	Formulation	Size
F50049-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F50049-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

# **Bulk quote request**

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	O95835
Applications	Western Blot : 1:1000 IHC (Paraffin) : 1:50-1:100
Limitations	This LATS1 antibody is available for research use only.

135 _	Western blot analysis of LATS1 antibody and K562 lysate.
95	
72	
52	



IHC analysis of FFPE human hepatocarcinoma tissue stained with the LATS1 antibody

## **Description**

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.

# **Application Notes**

Titration of the LATS1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

#### **Immunogen**

A portion of amino acids 1-30 from the human protein was used as the immunogen for this LATS1 antibody.

### **Storage**

Aliquot the LATS1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.