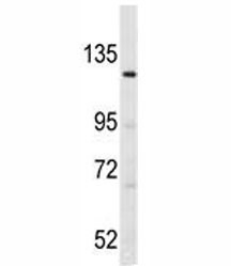
LATS1 Antibody (F50049)

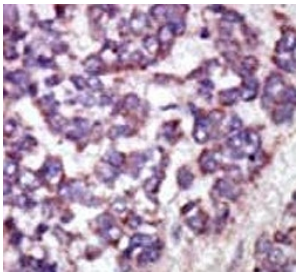
Catalog No.	Formulation	Size
F50049-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F50049-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Rabbit
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.



Western blot analysis of LATS1 antibody and K562 lysate.



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.

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