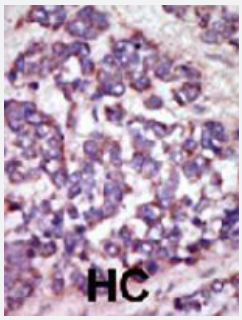
LATS1 polyclonal antibody

Catalog # PAB2015 Size 400 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human hepatocellular carcinoma tissue reacted with LATS1 polyclonal antibody (Cat # PAB2015) , which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry ; clinical relevance has not been evaluated. HC = hepatocarcinoma.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of LATS1.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human LATS1.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid
Purification	Protein G purification
Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:50-100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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- Western Blot

Gene Info — LATS1

Entrez GeneID	9113
Protein Accession#	NP_004681;O95835
Gene Name	LATS1
Gene Alias	WARTS, wts
Gene Description	LATS, large tumor suppressor, homolog 1 (Drosophila)
Omim ID	603473
Gene Ontology	Hyperlink
Gene Summary	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 p hosphorylated in a cell-cycle dependent manner, with late prophase phosphorylation remaining thr ough metaphase. The N-terminal region of the protein binds CDC2 to form a complex showing re duced H1 histone kinase activity, indicating a role as a negative regulator of CDC2/cyclin A. In ad dition, the C-terminal kinase domain binds to its own N-terminal region, suggesting potential nega tive regulation through interference with complex formation via intramolecular binding. Biochemica l 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 sensiti vity to carcinogenic treatments. [provided by RefSeq
Other Designations	LATS (large tumor suppressor, Drosophila) homolog 1|LATS homolog 1

Publication Reference

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- Identification of novel posttranscriptional targets of the BCR/ABL oncoprotein by ribonomics: requirement of E2F3 for BCR/ABL leukemogenesis.

  Eiring AM, Neviani P, Santhanam R, Oaks JJ, Chang JS, Notari M, Willis W, Gambacorti-Passerini C, Volinia S, Marcucci G, Caligiuri MA, Leone GW, Perrotti D.

  Blood 2007 Oct; 111(2):816.

Disease

- Adenocarcinoma
- Esophageal Neoplasms

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