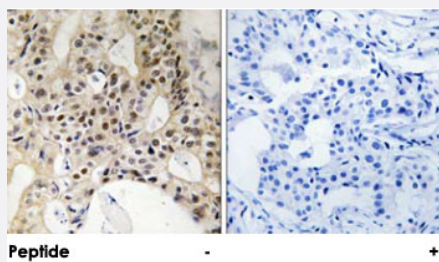


LATS1/LATS2 polyclonal antibody

Catalog # PAB18515 Size 100 ug

Applications



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

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using LATS1/LATS2 polyclonal antibody (Cat # PAB18515).
Peptide "+" means "peptide blocking".

Specification

Product Description Rabbit polyclonal antibody raised against synthetic peptide of LATS1/LATS2.

Immunogen A synthetic peptide corresponding to human LATS1/LATS2.

Host Rabbit

Reactivity Human, Mouse

Specificity This antibody is specific to LATS1/LATS2.

Form Liquid

Purification Affinity purification

Concentration 1 mg/mL

Recommend Usage Immunohistochemistry (1:50-1:100)
ELISA (1:40000)
The optimal working dilution should be determined by the end user.

Storage Buffer In PBS, 150mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)

Storage Instruction

Store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

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

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using LATS1/LATS2 polyclonal antibody (Cat # PAB18515).
Peptide "+" means "peptide blocking".

- Enzyme-linked Immunoabsorbent Assay

Gene Info — LATS1

Entrez GeneID[9113](#)**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 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]

Other Designations

LATS (large tumor suppressor, Drosophila) homolog 1|LATS homolog 1

Gene Info — LATS2

Entrez GeneID	26524
Gene Name	LATS2
Gene Alias	FLJ13161, KPM
Gene Description	LATS, large tumor suppressor, homolog 2 (Drosophila)
Omim ID	604861
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a serine/threonine protein kinase belonging to the LATS tumor suppressor family. The protein localizes to centrosomes during interphase, and early and late metaphase. It interacts with the centrosomal proteins aurora-A and ajuba and is required for accumulation of gamma-tubulin and spindle formation at the onset of mitosis. It also interacts with a negative regulator of p53 and may function in a positive feedback loop with p53 that responds to cytoskeleton damage. Additionally, it can function as a co-repressor of androgen-responsive gene expression. [provided by RefSeq]
Other Designations	LATS (large tumor suppressor, Drosophila) homolog 2 LATS, large tumor suppressor, homolog 2 OTTHUMP00000018106 kinase phosphorylated during mitosis protein serine/threonine kinase KPM warts-like kinase

Publication Reference

- [Hippo signaling disruption and Akt stimulation of ovarian follicles for infertility treatment.](#)

Kawamura K, Cheng Y, Suzuki N, Deguchi M, Sato Y, Takae S, Ho CH, Kawamura N, Tamura M, Hashimoto S, Sugishita Y, Morimoto Y, Hosoi Y, Yoshioka N, Ishizuka B, Hsueh AJ.

PNAS 2013 Oct; 110(43):17474.

Application: IHC, WB-Ce, WB-Ti, Human, Mouse, Ovarian, 3T3 cells

- [The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection \(MGC\).](#)

Gerhard DS, Wagner L, Feingold EA, Shenmen CM, Grouse LH, Schuler G, Klein SL, Old S, Rasooly R, Good P, Guyer M, Peck AM, Derge JG, Lipman D, Collins FS, Jang W, Sherry S, Feolo M, Misquitta L, Lee E, Rotmistrovsky K, Greenhut SF, Schaefer CF, Buetow K, Bonner TI, Haussler D, Kent J, Kiekhuis M, Furey T, Brent M, Prange C, Schreiber K, Shapiro N, Bhat NK, Hopkins RF, Hsie F, Driscoll T, Soares MB, Casavant TL, Scheetz TE, Brownstein MJ, Usdin TB, Toshiyuki S, Carninci P, Piao Y, Dudekula DB, K

Genome Research 2004 Oct; 14(10B):2121.

Disease

- [Adenocarcinoma](#)
- [Esophageal Neoplasms](#)
- [Tobacco Use Disorder](#)