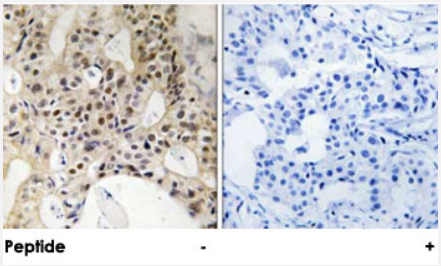
LATS1/LATS2 polyclonal antibody

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 shoul d 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 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

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 fa mily. The protein localizes to centrosomes during interphase, and early and late metaphase. It inte racts with the centrosomal proteins aurora-A and ajuba and is required for accumulation of gamm a-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 K PM|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, Kiekhaus 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, Brown-stein 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