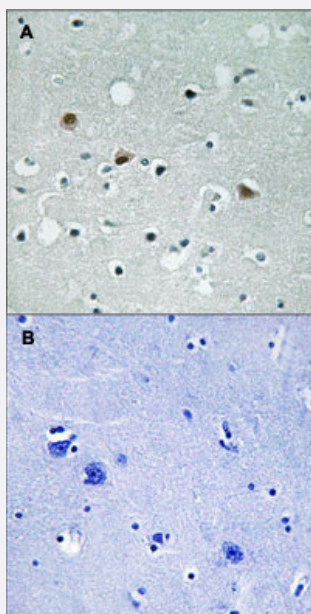


LATS1/LATS2 (phospho T1079/1041) polyclonal antibody

Catalog # PAB29206

Size 100 uL

Applications



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

Immunohistochemical staining of human brain tissue by LATS1/LATS2 (phospho T1079/1041) polyclonal antibody (Cat # PAB29206) without blocking peptide (A) or preincubated with blocking peptide (B) under 1:50-1:100 dilution.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of human LATS1/LATS2.
Immunogen	Synthetic phosphopeptide (conjugated with KLH) corresponding to residues surrounding T1079/1041 of human LATS1/LATS2.
Host	Rabbit
Theoretical MW (kDa)	126
Reactivity	Human, Mouse
Specificity	This antibody detects endogenous levels of LATS1/LATS2 only when phosphorylated at threonine 1079/1041.
Form	Liquid

Purification	Affinity purification
Recommend Usage	Immunohistochemistry (1:50-1:100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (without Mg ²⁺ and Ca ²⁺), (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Avoid repeated freezing and thawing.

Applications

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Gene Info — LATS1

Entrez GeneID	9113
Protein Accession#	O95835:Q9NRM7
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](#)

Protein Accession# [O95835;Q9NRM7](#)

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 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 KPM|warts-like kinase

Disease

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