

Active Recombinant Human LATS1, GST-tagged

Cat. No. LATS1-1423H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human LATS1 (589-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	589 aa-end
Description	LATS1 is a putative serine/threonine kinase that localizes to the mitotic apparatus and complexes with cell cycle controller CDC2 kinase in early mitosis which is phosphorylated in a cell-cycle dependent manner. The N-terminal region of the protein binds CDC2 to form a complex showing reduced H1 histone kinase activity which indicating a role as a negative regulator of CDC2/cyclin A and the C-terminal kinase domain binds to its own N-terminal region, suggesting potential negative regulation through interference with complex formation via intramolecular binding. LATS1 act as a tumor suppressor and play an important role in the development of soft-tissue sarcomas, ovarian stromal cell tumors and a high sensitivity to carcinogenic treatments.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	1.4 nmol/min/mg

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Molecular Mass	~95 kDa
Purity	>75%
Applications	Kinase Assay, Western Blot
Storage	Store at –70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1µg/µl

GENE INFORMATION

Gene Name	LATS1 LATS, large tumor suppressor, homolog 1 (Drosophila) [Homo sapiens]
Official Symbol	LATS1
Synonyms	LATS1; LATS, large tumor suppressor, homolog 1 (Drosophila); LATS (large tumor suppressor, Drosophila) homolog 1; serine/threonine-protein kinase LATS1; WARTS; h-warts; WARTS protein kinase; large tumor suppressor homolog 1; wts;
Gene ID	9113
mRNA Refseq	NM_004690
Protein Refseq	NP_004681
MIM	603473
UniProt ID	O95835

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Chromosome Location	6q25.1
Pathway	Signal Transduction, organism-specific biosystem; Signaling by Hippo, organism-specific biosystem;
Function	ATP binding; magnesium ion binding; nucleotide binding; protein binding; protein kinase binding; protein serine/threonine kinase activity;

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