Recombinant Human LATS1 cell lysate

Cat. No. LATS1-974HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Description	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.
Size	100 ul
Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Applications	Western Blot;

GENE INFORMATION

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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
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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