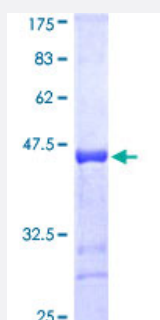


LATS1 (Human) Recombinant Protein (Q01)

Catalog # H00009113-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human LATS1 partial ORF (NP_004681, 521 a.a. - 620 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	PQPIQTVQPSPFPEGTASNVTVMPPVAEAPNYQGPPPPYPKHLHQNPSVPPYESISKPSKEDQ PSLPKEDESEKSYENVDSGDKEKKQITTSPITVRKN
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.63
Interspecies Antigen Sequence	Mouse (93); Rat (93)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — LATS1

Entrez GeneID [9113](#)

GeneBank Accession# [NM_004690](#)

Protein Accession# [NP_004681](#)

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

Disease

- [Adenocarcinoma](#)
- [Esophageal Neoplasms](#)