



LATS1 (Serine/threonine-Protein Kinase LATS1, Large Tumor Suppressor Homolog 1, WARTS Protein Kinase, h-warts, WARTS)

Catalog number

223880

Supplier

United States Biological

The *Drosophila* tumor suppressor protein *lats* (for large tumor suppressor) is a putative protein kinase that shares homology with three proteins in *Neurospora* and budding yeast that are involved in cell cycle and growth regulation: *S. cerevisiae* Dbf2 and Dbf20, and *Neurospora cot-1*. Mosaic screens in *Drosophila* have identified the *lats* gene as a tumor suppressor in this species. The human homolog, designated LATS1, was shown to inhibit tumor growth in *lats*-deficient *Drosophila*. Human LATS1 binds to Cdc2 in early mitosis and appears to negatively regulate the kinase activity of Cdc2. LATS1-deficient mice are highly sensitive to carcinogenic treatments and develop soft-tissue sarcomas and ovarian stromal cell tumors, indicating a role for mammalian LATS1 in tumorigenesis.

Applications

Suitable for use in Western Blot. Other applications not tested.

Recommended Dilution

Western Blot: 1:500-1:1000

Optimal dilutions to be determined by the researcher.

Storage and Stability

May be stored at 4°C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20°C. Aliquots are stable for 12 months after receipt. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.

Immunogen

A synthetic peptide corresponding to residues in Human LATS1.

Formulation

Supplied as a liquid PBS, 0.1% sodium azide, 50% glycerol.

Purity

Purified by immunoaffinity chromatography.

Specificity

Recognizes endogenous levels of LATS1. Species Crossreactivity: Human, mouse, rat

Product Type

Pab

Source



human

Isotype

IgG

Grade

Affinity Purified

Applications

WB

Crossreactivity

Hu Mo Rt

Storage

-20°C

MW

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