

Anti-LATS1/WARTS Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

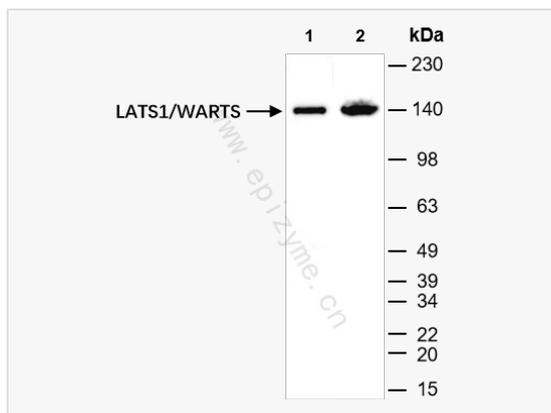
Catalog # R014355

Product Information

Application	WB, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	88D85T19
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of human LATS1/WARTS
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-LATS1/WARTS Rabbit mAb [88D85T19] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Synonyms	h-warts, Large tumor suppressor homolog 1, LATS large tumor suppressor homolog 1, LATS1, LATS1_HUMAN, Serine threonine protein kinase LATS1, Serine/threonine-protein kinase LATS1, WARTS, WARTS protein kinase, wts.
Calculated MW	Calculated MW: 127 kDa; Observed MW: 140 kDa
Uniprot ID	O95835
Gene ID	9113
Background	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, Apr 2017]
Cellular Location	Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Localizes to the centrosomes throughout interphase but migrates to the mitotic apparatus, including spindle pole bodies, mitotic spindle, and midbody, during mitosis.
Tissue Location	Expressed in all adult tissues examined except for lung and kidney.



Western Blot - Anti-LATS1/WARTS Rabbit mAb [88D85T19]

All lanes: R014355 at 1:1,000 dilution

Lane 1: Rat brain whole tissue lysates

Lane 2: Mouse brain whole tissue lysates

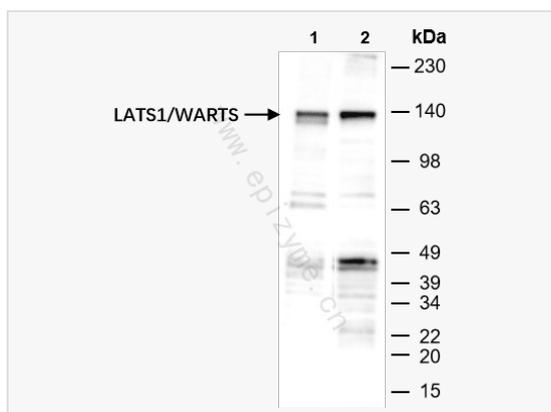
Lysates/proteins at 10 μ g per lane.

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 127 kDa

Observed band size: 140 kDa

Developed using the ECL technique (Cat. No. SQ201).



Western Blot - Anti-LATS1/WARTS Rabbit mAb [88D85T19]

All lanes: R014355 at 1:1,000 dilution

Lane 1: MCF7 (Human breast adenocarcinoma epithelial cell) whole cell lysates

Lane 2: SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysates

Lysates/proteins at 10 μ g per lane.

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 127 kDa

Observed band size: 140 kDa

Developed using the ECL technique (Cat. No. SQ201).