

LATS1 Antibody



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Applications: W	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 140	Source/Isotype: Rabbit	UniProt ID: #O95835	Entrez-Gene Id: 9113
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		LATS1 Antibody detects endogenous levels of total LATS1 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino acids surrounding Ser177 of human LATS1. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		the NDR family (1). The that plays a role in the and the mitotic spindle LATS1 is also reported LATS1 affects cytoking LATS1 also binds the proteins during mitos aggressiveness (7), are ovarian sarcomas (8,9) and display a high seriodentified as key mem to regulate cell growt proteins (e.g., MST1) and TAZ (12, 13). LATS sequestration and assessive in the seriodentified as the sequestration and assessive in the sequ	ne Drosophila homo e maintenance of pi le and control G2/M d to play a role in the esis by regulating as phosphorylated for localization of zyxir sis (6). Decreased ex not mutations pertui p). LATS1 knockout r nsitivity to carcinog obers of the Hippo s h and apoptosis (11 results in LATS-med sociation with 14-3-	sins (LATS1, LATS2) are so log (warts) was first ider oidy. Human LATS1 was transition by negatively e G1 tetraploidy checkpottin polymerization throm of zyxin, a regulator of the mitotic spindle, spression of LATS1 is assibing LATS1 have been a nice develop soft-tissue enic treatments (10). LAT ignaling pathway, a cond.). Phosphorylation of LATS1 is assibing LATS1 have been a nice develop soft-tissue enic treatments (10). LAT ignaling pathway, a cond.). Phosphorylation of LATS1 is assibility and the condition of YAP and TAZS3 proteins, and subseques that promote cell groups.	ntified as a tumor si shown to localize to regulating cdc2 kinoint, via control of pugh negative module of actin filament assisting a role for ociated with breast issociated with humbers arcomas, ovariants for and LATS2 have served kinase cascasts by Mammaliants of the transcriptional promotes their cytilent proteasomal de-	uppressor protein to the centrosome mase activity (2,3). 153 expression (4). 16 lation of LIMK1 (5). 16 embly. This for actin regulatory tumor man sarcomas and 16 stromal cell tumor, 16 also been 16 de that functions 17 sterile-20-like 16 co-activators yapoplasmic
Background References		1. Tao, W. et al. (1999) Nat Genet 21, 177-81. 2. Yang, X. et al. (2001) Oncogene 20, 6516-23. 3. Xia, H. et al. (2002) Oncogene 21, 1233-41. 4. Iida, S. et al. (2004) Oncogene 23, 5266-74. 5. Yang, X. et al. (2004) Nat Cell Biol 6, 609-17. 6. Hirota, T. et al. (2000) J Cell Biol 149, 1073-86. 7. Morinaga, N. et al. (2000) Int J Oncol 17, 1125-9. 8. Hansen, L.L. et al. (2002) Cancer Genet Cytogenet 139, 1-8. 9. Hisaoka, M. et al. (2002) Lab Invest 82, 1427-35. 10. St John, M.A. et al. (1999) Nat Genet 21, 182-6. 11. Guo, C. et al. (2007) Curr Biol 17, 700-5. 12. Hergovich, A. et al. (2006) Biochem Biophys Res Commun 345, 50-8. 13. Hirabayashi, S. et al. (2008) Oncogene 27, 4281-92. 14. Zhao, B. et al. (2010) J Cell Sci 123, 4001-6.				

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key H: Human Mk: Monkey

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