Phospho-LATS1 (Thr1079) (D57D3) Rabbit mAb



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Applications: W	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 140	Source/Isotype: Rabbit IgG	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 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sens	itivity	Phospho-LATS1 (Thr1079) (D57D3) Rabbit mAb detects endogenous levels of LATS1 protein only when phosphorylated at Thr1079. This antibody is predicted to cross react with LATS2 only when LATS2 is phosphorylated at Thr1041.				
Species predicte based on 100% s homology		Rat, Monkey, Chicken, Xenopus, Zebrafish, Dog				
Source / Purifica	ation	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr1079 of human LATS1 protein.				
Background		the NDR family (1). The that plays a role in the and the mitotic spindl LATS1 is also reported LATS1 affects cytokine LATS1 also binds the p interaction promotes l proteins during mitosi aggressiveness (7), an ovarian sarcomas (8,9 and display a high sen identified as key mem to regulate cell growth proteins (e.g., MST1) r and TAZ (12, 13). LATS sequestration and ass	e Drosophila homol maintenance of pl- e and control G2/M to play a role in the sis by regulating ac shosphorylated forr localization of zyxin is (6). Decreased ex d mutations pertur). LATS1 knockout n sistivity to carcinoge bers of the Hippo s n and apoptosis (11 esults in LATS-medi mediated phospho ociation with 14-3-3	ins (LATS1, LATS2) are set log (warts) was first iden oidy. Human LATS1 was transition by negatively e G1 tetraploidy checkpo tin polymerization throu n of zyxin, a regulator of to the mitotic spindle, s pression of LATS1 is asso bing LATS1 have been as nice develop soft-tissue enic treatments (10). LAT ignaling pathway, a com). Phosphorylation of LATS1 ated phosphorylation of rylation of YAP and TAZ 8 proteins, and subseque es that promote cell gro	tified as a tumor su shown to localize to regulating cdc2 kin pint, via control of pi ugh negative modul f actin filament asse uggesting a role for potated with breast ssociated with breast S1 and LATS2 have served kinase casca TS by Mammalian S the transcriptional promotes their cyto ent proteasomal de	appressor protein the centrosome base activity (2,3). 53 expression (4). ation of LIMK1 (5). mbly. This r actin regulatory tumor an sarcomas and tromal cell tumor, also been de that functions terile-20-like co-activators YAP pplasmic
Background Ref	erences	 Tao, W. et al. (1999) Yang, X. et al. (2001) Xia, H. et al. (2002) Iida, S. et al. (2004) Yang, X. et al. (2004) Hirota, T. et al. (2004) Hirota, T. et al. (2004) Morinaga, N. et al. (2004) Hansen, L.L. et al. (2 Hisaoka, M. et al. (2 St John, M.A. et al. Guo, C. et al. (2007) Hirabayashi, S. et al. Hirabayashi, S. et al. 	 Oncogene 20, 651 Oncogene 21, 1233- Oncogene 23, 5266 Nat Cell Biol 6, 609 J Cell Biol 149, 10 2000) Int J Oncol 17 2002) Cancer Genet 202) Lab Invest 82, (1999) Nat Genet 22 Curr Biol 17, 700-5 (2006) Biochem Bia (2008) Oncogene 	6-23. 41. -74. 9-17. 73-86. 7, 1125-9. <i>Cytogenet</i> 139, 1-8. 1427-35. 1, 182-6. 5. <i>ophys Res Commun</i> 345 9 27, 4281-92.	, 50-8.	

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 M: Mouse		
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