Rabbit mAb

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Cell Signaling Phospho-MOB1 (Thr12) (D2E3) TECHNOLOGY® 877-616-CELL (2355) Orders:

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Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 24	Source/Isotype: Rabbit IgG	UniProt ID: #Q9H8S9, #Q7L9L4	Entrez-Gene Id: 55233, 92597	
Product Usage Information	Apj We	blication stern Blotting			Dilution 1:1000		
Storage	Supj 0.02	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensitiv	vity Phos phos	Phospho-MOB1 (Thr12) (D2E3) Rabbit mAb recognizes endogenous levels of MOB1 protein only when phosphorylated at Thr12.					
Species predicted to react based on 1009 sequence homology	o Xend % y:	opus, Horse					
Source / Purification	n Mon resid	oclonal antibody is p lues surrounding Th	produced by imm Ir12 of human M	nunizing animals with a OB1 protein.	a synthetic phosphopeptid	e corresponding to	
Background	MOE mito: resp orga prote than kina: by th (5,10 Phos The co-a prog	MOB1 was first identified in yeast as a protein that binds to Mps with essential roles in the completion of mitosis and the maintenance of ploidy (1). Its <i>Drosophila</i> and mammalian homologs, Mats and MOB1, respectively, are involved in the Hippo signaling tumor suppressor pathway, which plays a critical role in organ size regulation and which has been implicated in cancer development (2-5). There are two MOB1 proteins in humans, MOB1A and MOB1B, that are encoded by two different genes but which have greater than 95% amino acid sequence identity (6). Both forms bind to members of the nuclear Dbf2-related (NDR) kinases, such as LATS1/2 and NDR1/2, thereby stimulating kinase activity (7-9). This binding is promoted by the phosphorylation of MOB1 at several threonine residues (e.g., Thr12, Thr35) by MST1 and/or MST2 (5,10). Phosphorylation at Thr12 by MST1/2 stabilizes MOB1, enhancing its binding and regulation of LATS1 (5). The resultant increase in LATS1 kinase activity promotes inhibitory phosphorylation of the transcriptional co-activators YAP and TAZ (11,12), leading to changes in the expression of genes involved in cell cycle progression (13).					
Background Refere	nces 1. Lu 2. Ec 3. Sa 4. Ha 5. Ze 6. Pr 7. De 8. He 9. He 10. Hi 11. Zh 12. Le 13. Ha	Ica, F.C. and Winey, Igar, B.A. (2006) <i>Ce</i> aucedo, L.J. and Ed arvey, K. and Tapon, eng, Q. and Hong, W askova, M. et al. (20 ergovich, A. et al. (20 ergovich, A. et al. (20 rabayashi, S. et al. (20 nao, B. et al. (2007) i, Q.Y. et al. (2008) J	M. (1998) Mol E Il 124, 267-73. gar, B.A. (2007) , N. (2007) Nat F V. (2008) Cancer 2008) Curr Biol 18 (4) J Biol Chem 2 2005) Mol Cell Biol 2006) Biochem Bi (2008) Oncogene Genes Dev 21, 2 Mol Cell Biol 28, Biol Chem 283,	Biol Cell 9, 29-46. Nat Rev Mol Cell Biol Rev Cancer 7, 182-91. Cell 13, 188-92. 3, 311-21. 79, 24444-51. ol 25, 8259-72. fophys Res Commun S e 27, 4281-92. 2747-61. 2426-36. 5496-509.	8, 613-21. 345, 50-8.		
Species Reactivity	Speci	es reactivity is deter	rmined by testing	g in at least one appro	ved application (e.g., west	ern blot).	
Western Blot Buffer	IMPC	RTANT: For wester	n blots, incubate	membrane with dilute	d primary antibody in 5%	w/v BSA, 1X TBS,	

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

1/1/24, 8:57 AM	nospho-MOB1 (Thr12) (D2E3) Rabbit mAb (#8843) Datasheet Without Images Cell Signaling Technolo	bgy
Applications Key	WB: Western Blotting	
Cross-Reactivity I	 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected 	
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