

#13730 Store at -20°C

MOB1 (E1N9D) Rabbit mAb**Cell Signaling**
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP	H M R Hm Mk	Endogenous	24	Rabbit IgG	#Q9H8S9, #Q7L9L4	55233, 92597

Product Usage Information	Application Western Blotting Immunoprecipitation	Dilution 1:1000 1:50
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 / Sensitivity	MOB1 (E1N9D) Rabbit mAb recognizes endogenous levels of total MOB1 protein. This antibody detects both MOB1A and MOB1B.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human MOB1A protein.	
Background	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).	
Background References	1. Luca, F.C. and Winey, M. (1998) <i>Mol Biol Cell</i> 9, 29-46. 2. Edgar, B.A. (2006) <i>Cell</i> 124, 267-73. 3. Saucedo, L.J. and Edgar, B.A. (2007) <i>Nat Rev Mol Cell Biol</i> 8, 613-21. 4. Harvey, K. and Tapon, N. (2007) <i>Nat Rev Cancer</i> 7, 182-91. 5. Zeng, Q. and Hong, W. (2008) <i>Cancer Cell</i> 13, 188-92. 6. Praskova, M. et al. (2008) <i>Curr Biol</i> 18, 311-21. 7. Devroe, E. et al. (2004) <i>J Biol Chem</i> 279, 24444-51. 8. Hergovich, A. et al. (2005) <i>Mol Cell Biol</i> 25, 8259-72. 9. Hergovich, A. et al. (2006) <i>Biochem Biophys Res Commun</i> 345, 50-8. 10. Hirabayashi, S. et al. (2008) <i>Oncogene</i> 27, 4281-92.	

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	WB: Western Blotting IP: Immunoprecipitation
Cross-Reactivity Key	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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