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<b>Applications:</b> W, IP, IHC-P, IF-IC	<b>Reactivity:</b> H Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 125	Source/Isotype: Mouse IgG1	<b>UniProt ID:</b> #P49736	Entrez-Gene Id: 4171	
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation Immunohistochemiste Immunofluorescence		istry)		<b>Dilution</b> 1:1000 1:200 1:400 1:200	
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		MCM2 (1E7) Mouse mAb recognizes endogenous levels of total MCM2 protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the amino terminus of human MCM2 protein.					
Background		initiation and elongati complex that is thoug a key component of th MCM complex to the c pre-RC and licensing t DNA to replicate only malignant cell growth MCM6 subunits appea CDK1 phosphorylation initiate complex forma by cdc7/dbf4 coincide DNA replication, causi Studies have shown th	on of DNA replication to act as a replica- tion pre-replication co- origin recognition co- he DNA for replication once per cell cycle, to do not occur (review ars to regulate MCM ato MCM3 at Ser112 ation and chromatin s with the initiation ng chromatin to been and assisting in res	1) 2-7 proteins are a fam on. MCM2-7 bind togeth itive helicase at the DNA implex (pre-RC) (reviewe omplex (ORC) during late on (reviewed in 2). Licen thereby helping to ensur- wed in 3). Phosphorylati complex activity and th 2 during late mitosis/ear loading <i>in vitro</i> (8). Pho of DNA replication (9). M come unlicensed throug ex is involved in checkpo tarting replication by rea	er to form the hete replication fork (1 d in 1). Cdc6 and C e mitosis/early G1 p sing of the chroma re that genetic alte on of the MCM2, N ly G1 phase has be sphorylation of MC ICM proteins are re h inhibition of pre- int control by prote	erohexameric MCM -5). This complex is DT1 recruit the ohase forming the atin permits the rations and ICM3, MCM4, and synthesis (6-8). een shown to CM2 at serine 139 emoved during RC reformation. ecting the structure	
Background Re	ferences	1. Lei, M. and Tye, B.K. 2. Lygerou, Z. and Nur 3. Forsburg, S.L. (2004 4. Tye, B.K. and Sawye 5. Labib, K. et al. (2000 6. Charych, D.H. et al. (2006) 7. Masai, H. et al. (2008) 9. Tsuji, T. et al. (2006) 10. Bailis, J.M. et al. (2007)	se, P. (2000) Science ) Microbiol Mol Biol r, S. (2000) J Biol Che ) Science 288, 1643 (2008) J Cell Biocher 6) J Biol Chem 281, 3 Proc Natl Acad Sci Mol Biol Cell 17, 449	2 290, 2271-3. <i>Rev</i> 68, 109-31. <i>em</i> 275, 34833-6. -7. <i>n</i> 104, 1075-86. 39249-61. <i>USA</i> 105, 8079-84. 59-72.			
Species Reactiv	rity	Species reactivity is de	termined by testing	j in at least one approve	d application (e.g.,	western blot).	
Western Blot B	uffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications Ke	ey.	<b>W:</b> Western Blotting <b>IP:</b> Immunoprecipitation <b>IHC-P:</b> Immunohistochemistry (Paraffin) <b>IF-IC:</b> Immunofluorescence (Immunocytochemistry)				in) <b>IF-IC:</b>	
Cross-Reactivit	у Кеу	H: Human Mk: Monke	У				

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