MCM7 (D10A11) XP[®] Rabbit mAb



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Applications: W, IP, IHC-P, IF-IC	Reactivity:	Sensitivity:	MW (kDa): 80	Source/Isotype:	UniProt ID: #P33993	Entrez-Gene Id: 4176	
VV, IP, IHC-P, IF-IC	H M R Hm Mk Dg	Endogenous	80	Rabbit IgG	#P33993	4170	
Product Usag	e	Application			Dilu	ution	
Information		Western Blotting			1:10	1:1000	
		Immunoprecipitation	I		1:10	00	
		Immunohistochemist	try (Paraffin)		1:20	00 - 1:800	
		Immunofluorescence	e (Immunocytochem	istry)	1:10	00 - 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.					
		For a carrier free (BSA	and azide free) ver	sion of this product see	product #58963.		
Specificity/Sensitivity		MCM7 (D10A11) XP [®] Rabbit mAb detects endogenous levels of total MCM7 protein. Western blot analysis and immunofluorescent data indicate that the antibody is more reactive to primate than rodent proteins.					
Source / Purif	ication	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to carboxy-terminal residues of human MCM7.				rresponding to	
Background		initiation and elongat complex that is thoug a key component of t MCM complex to the pre-RC and licensing DNA to replicate only malignant cell growth MCM6 subunits appe CDK1 phosphorylatio initiate complex form by cdc7/dbf4 coincide DNA replication, caus Studies have shown t	tion of DNA replication of DNA replication to act as a replica- origin recognition of the DNA for replication once per cell cycle, in a do not occur (reviee ars to regulate MCM n of MCM3 at Ser11: ation and chromatin es with the initiation ing chromatin to be hat the MCM comple- c and assisting in ress	4) 2-7 proteins are a fam on. MCM2-7 bind togeth ative helicase at the DNA omplex (pre-RC) (reviewe omplex (ORC) during lat- tion (reviewed in 2). Licer thereby helping to ensu wed in 3). Phosphorylati I complex activity and the 2 during late mitosis/eau h loading <i>in vitro</i> (8). Pho- of DNA replication (9). No come unlicensed througe ex is involved in checkpo- tarting replication by re	er to form the hete a replication fork (1- ed in 1). Cdc6 and Cl e mitosis/early G1 p nsing of the chroma re that genetic alter on of the MCM2, M re initiation of DNA rly G1 phase has be osphorylation of MC MCM proteins are re ph inhibition of pre- bint control by prote	rohexameric MCM 5). This complex is DT1 recruit the hase forming the tin permits the ations and CM3, MCM4, and synthesis (6-8). en shown to M2 at serine 139 moved during RC reformation. ecting the structure	
Background R	eferences	1. Lei, M. and Tye, B.K 2. Lygerou, Z. and Nu 3. Forsburg, S.L. (200- 4. Tye, B.K. and Sawye 5. Labib, K. et al. (200 6. Charych, D.H. et al. 7. Masai, H. et al. (200 8. Lin, D.I. et al. (2008 9. Tsuji, T. et al. (2006) 10. Bailis, J.M. et al. (2	rse, P. (2000) Science 4) Microbiol Mol Biol er, S. (2000) J Biol Chi 0) Science 288, 1643 (2008) J Cell Biocher 16) J Biol Chem 281, 3) Proc Natl Acad Sci) Mol Biol Cell 17, 44	e 290, 2271-3. / <i>Rev</i> 68, 109-31. <i>em</i> 275, 34833-6. -7. <i>m</i> 104, 1075-86. 39249-61. <i>USA</i> 105, 8079-84. 59-72.			
Species React	ivity	Species reactivity is d	etermined by testing	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot	Buffer	IMPORTANT: For west TBS, 0.1% Tween® 20		membrane with diluted haking, overnight.	primary antibody ir	1 5% w/v BSA, 1X	

Applications Key	W: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry)		
Cross-Reactivity Key	H: Human M: Mouse R: Rat Hm: Hamster Mk: Monkey Dg: Dog		
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