Store at -20C	MCM4 Antibody			
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com	
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## For Research Use Only. Not for Use in Diagnostic Procedures.

	ctivity: Sensitivity: 1 R Mk Endogenous	<b>MW (kDa):</b> 96	Source: Rabbit	<b>UniProt ID:</b> #P33991	Entrez-Gene Id: 4173			
Product Usage Information	Application Western Blotting		Dilution 1:1000					
Storage		oplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – C. Do not aliquot the antibody.						
Specificity / Sensitivity		MCM4 Antibody recognizes endogenous levels of total MCM4 protein. This antibody cross-reacts with a 250 kDa protein of unknown origin.						
Source / Purification	residues surrounding G	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly431 of human MCM4 protein. Antibodies are purified by protein A and peptide affinity chromatography.						
Background	initiation and elongation complex that is though key component of the p complex to the origin re and licensing the DNA replicate only once per growth do not occur (re appears to regulate MC of MCM3 at Ser112 du chromatin loading <i>in vii</i> initiation of DNA replica become unlicensed thr	n of DNA replication t to act as a replication per-replication complex for replication (revie cell cycle, thereby f eviewed in 3). Phosp CM complex activity ring late mitosis/earl tro (8). Phosphorylat ation (9). MCM prote ough inhibition of pr control by protecting	MCM2-7 bind togel ve helicase at the D lex (pre-RC) (review (ORC) during late m wed in 2). Licensing helping to ensure that horylation of the MC and the initiation of f y G1 phase has been tion of MCM2 at seri ins are removed dur e-RC reformation. S the structure of the	amily of six related prote ther to form the heterohy NA replication fork (1-5) red in 1). Cdc6 and CDT tosis/early G1 phase fo of the chromatin permit at genetic alterations and CM2, MCM3, MCM4, and DNA synthesis (6-8). CE en shown to initiate com ne 139 by cdc7/dbf4 coi ring DNA replication, cai tudies have shown that replication fork and ass red in 3,10).	exameric MCM . This complex is a T recruit the MCM rming the pre-RC as the DNA to d malignant cell d MCM6 subunits DK1 phosphorylation plex formation and incides with the using chromatin to the MCM complex is			
Background Reference	2. Lygerou, Z. and Nurs 3. Forsburg, S.L. (2004 4. Tye, B.K. and Sawye 5. Labib, K. et al. (2000 6. Charych, D.H. et al. 7. Masai, H. et al. (2000 8. Lin, D.I. et al. (2008) 9. Tsuji, T. et al. (2006)	<ol> <li>Lei, M. and Tye, B.K. (2001) J Cell Sci 114, 1447-54.</li> <li>Lygerou, Z. and Nurse, P. (2000) Science 290, 2271-3.</li> <li>Forsburg, S.L. (2004) Microbiol Mol Biol Rev 68, 109-31.</li> <li>Tye, B.K. and Sawyer, S. (2000) J Biol Chem 275, 34833-6.</li> <li>Labib, K. et al. (2000) Science 288, 1643-7.</li> <li>Charych, D.H. et al. (2008) J Cell Biochem 104, 1075-86.</li> <li>Masai, H. et al. (2006) J Biol Chem 281, 39249-61.</li> <li>Lin, D.I. et al. (2006) Proc Natl Acad Sci USA 105, 8079-84.</li> <li>Tsuji, T. et al. (2006) Mol Biol Cell 17, 4459-72.</li> <li>Bailis, J.M. et al. (2008) Mol Cell Biol 28, 1724-38.</li> </ol>						
Species Reactivity	Species reactivity is det	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	WB: Western Blotting						
Cross-Reactivity Key	X: Xenopus Z: zebrafish	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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Limited Uses

MCM4 Antibody (#3228) Datasheet Without Images Cell Signaling Technology

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