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e at -20C	MCM3 (D47B6) Rabbit mAb		Cell Signaling		
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com		
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For Research Use Onl	v Not for Use in	Diagnostic Procedures.
	y, NOUTOF OSC III	Diagnostici roccuares.

Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 100	Source/Isotype: Rabbit IgG	UniProt ID: #P25205	Entrez-Gene Id: 4172	
Product Usage Information	•	plication estern Blotting			Dilution 1:1000		
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		MCM3 (D47B6) Rabbit mAb detects endogenous levels of total MCM3 protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to amino- terminal residues of human MCM3.					
Background	initia com key com and repli grov app of M chrc initia beco invo	ation and elongation plex that is thought is component of the pr plex to the origin rec licensing the DNA for icate only once per of vth do not occur (rev ears to regulate MCI ICM3 at Ser112 duri potention loading <i>in vitro</i> ation of DNA replicat pome unlicensed thro lived in checkpoint co	of DNA replication to act as a replic re-replication comple- cognition comple- prieved in 3). Pho M complex activi- ng late mitosis/er- o (8). Phosphory ion (9). MCM pro- ugh inhibition of ontrol by protection	M) 2-7 proteins are a fai on. MCM2-7 bind togeth ative helicase at the DN nplex (pre-RC) (reviewe x (ORC) during late mito <i>i</i> ewed in 2). Licensing of y helping to ensure that sphorylation of the MCN ty and the initiation of D arly G1 phase has been dation of MCM2 at sering oteins are removed durin pre-RC reformation. Stu- ing the structure of the r ins after arrest (reviewe	er to form the heteroh A replication fork (1-5) d in 1). Cdc6 and CDT osis/early G1 phase fo of the chromatin permit genetic alterations and A2, MCM3, MCM4, an NA synthesis (6-8). CI shown to initiate com e 139 by cdc7/dbf4 co ng DNA replication, can dies have shown that eplication fork and ass	exameric MCM . This complex is a 1 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 Refer	2. Ly 3. Fr 4. Ty 5. La 6. C 7. M 8. Li 9. Ts	abib, K. et al. (2000) harych, D.H. et al. (2 lasai, H. et al. (2006)	2, P. (2000) Scier Microbiol Mol Bi , S. (2000) J Biol Science 288, 16 2008) J Cell Bioc) J Biol Chem 28 Proc Natl Acad S Aol Biol Cell 17, 4	nce 290, 2271-3. ol Rev 68, 109-31. l Chem 275, 34833-6. 643-7. them 104, 1075-86. 1, 39249-61. cci USA 105, 8079-84. 4459-72.			
Species Reactivity	J Spec	ies reactivity is dete	rmined by testing	g in at least one approve	ed application (e.g., we	estern blot).	
Western Blot Buffe		DRTANT: For western Tween® 20 at 4°C v		membrane with diluted ng, overnight.	primary antibody in 59	6 w/v BSA, 1X TBS,	
Applications Key	WB:	Western Blotting					
Cross-Reactivity k	X: X6		B: bovine Dg: do	Mk: monkey Vir: virus N og Pg: pig Sc: S. cerevi es expected		÷	

Trademarks and Patents

Limited Uses

MCM3 (D47B6) Rabbit mAb (#4003) Datasheet Without Images Cell Signaling Technology

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