Store at -20C	MCM3 Antibody		ell Signaling снмогоду®
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com
[2		Support:	877-678-TECH (8324)
#4012		Web:	info@cellsignal.com cellsignal.com
#		3 Trask Lane Danvers Ma	ssachusetts 01923 USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP, IF-IC	Reactivity: H M R Hm Mk	Sensitivity: Endogenous	MW (kDa): 100	Source: Rabbit	UniProt ID: #P25205	Entrez-Gene Id: 4172		
Product Usage Information	Wes	dication stern Blotting nunoprecipitation	munoortoohomio	to ()		Dilution 1:1000 1:50		
Storage	Supp	Immunofluorescence (Immunocytochemistry) 1:100 Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity / Sens	itivity MCN	MCM3 Antibody detects endogenous levels of total MCM3 protein.						
Source / Purificat	resid	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino-terminus of human MCM3. Antibodies are purified by protein A and peptide affinity chromatography.						
Background	initia comp key c comp and l replic grow appe of Mo chron initia beco invol	tion and elongation blex that is thought component of the pro- blex to the origin re- cate only once per of th do not occur (re- vars to regulate MC- CM3 at Ser112 duri matin loading <i>in vitr</i> tion of DNA replicat me unlicensed thro ved in checkpoint c	of DNA replication to act as a replicati re-replication complex (or replication (revie cell cycle, thereby h viewed in 3). Phosp M complex activity ing late mitosis/earl o (8). Phosphorylat tion (9). MCM prote bugh inhibition of pro- control by protecting	MCM2-7 bind toge 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 y G1 phase has been ion of MCM2 at seri- ins are removed du e-RC reformation. S	amily of six related prot ther to form the heteroh NA replication fork (1-5 ved in 1). Cdc6 and CD itosis/early G1 phase for of the chromatin permi at genetic alterations an CM2, MCM3, MCM4, ar DNA synthesis (6-8). C en shown to initiate com ine 139 by cdc7/dbf4 co ring DNA replication, ca tudies have shown that e replication fork and as ved in 3,10).	exameric MCM). This complex is a T1 recruit the MCM orming the pre-RC its the DNA to d malignant cell ad MCM6 subunits DK1 phosphorylation applex formation and bincides with the cusing chromatin to the MCM complex is		
Background Refe	2. Lyu 3. Fo 4. Tyu 5. La 6. Ch 7. Ma 8. Lir 9. Tsu	bib, K. et al. (2000) harych, D.H. et al. (2 asai, H. et al. (2006	e, P. (2000) Science Microbiol Mol Biol r, S. (2000) J Biol C Science 288, 1643 2008) J Cell Bioche) J Biol Chem 281, Proc Natl Acad Sci Mol Biol Cell 17, 44	e 290, 2271-3. Rev 68, 109-31. hem 275, 34833-6. 3-7. m 104, 1075-86. 39249-61. USA 105, 8079-84. 59-72.				
Species Reactivit	y Speci	es reactivity is dete	rmined by testing in	n at least one appro	ved application (e.g., w	estern blot).		
Western Blot Buf		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 Cross-Reactivity		WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)						

1/1/24, 1:58 PM	MCM3 Antibody (#4012) Datasheet Without Images Cell Signaling Technology			
	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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