e at -20C	MCM7 Antibody	T I	Cell Signaling TECHNOLOGY®	
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com	
∞		Support:	877-678-TECH (8324)	
#4018		Web:	info@cellsignal.com cellsignal.com	
#		3 Trask Lane Danvers M	assachusetts 01923 USA	

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

		Sensitivity: Endogenous	MW (kDa): 80	Source: Rabbit	UniProt ID: #P33993	Entrez-Gene Id: 4176			
Product Usage Information	Applic Wester	ation n Blotting		Dilution 1:1000					
Storage		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 / Sensitivity	ј МСМ7 А	MCM7 Antibody detects endogenous levels of total MCM7 protein.							
Source / Purification	residues	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino-terminus of human MCM7. Antibodies are purified by protein A and peptide affinity chromatography.							
Background	initiation complex key com complex and licer replicate growth c appears of MCM chromat initiation become involved	and elongation that is thought ponent of the p to the origin re nsing the DNA f e only once per do not occur (re to regulate MC 3 at Ser112 dur in loading <i>in viti</i> of DNA replica unlicensed thro in checkpoint of	n of DNA replication to act as a replicat re-replication complex for replication (revie cell cycle, thereby l viewed in 3). Phosp M complex activity ing late mitosis/ear ro (8). Phosphoryla tion (9). MCM protection control by protection	. MCM2-7 bind toge ive helicase at the D blex (pre-RC) (review (ORC) during late m wed in 2). Licensing helping to ensure that bhorylation of the MC and the initiation of ly G1 phase has been tion of MCM2 at seri- eins are removed dur re-RC reformation. S	amily of six related prote ther to form the heterohy NA replication fork (1-5) yed in 1). Cdc6 and CDT itosis/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, cat tudies have shown that replication fork and ass red in 3,10).	exameric MCM). This complex is a F1 recruit the MCM rming the pre-RC ts 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 Referenc	2. Lygerd 3. Forsb 4. Tye, E 5. Labib, 6. Chary 7. Masai 8. Lin, D 9. Tsuji,	ou, Z. and Nurs urg, S.L. (2004) 3.K. and Sawye , K. et al. (2000) rch, D.H. et al. (2006) 1. et al. (2008) T. et al. (2006)) Science 288, 164 2008) J Cell Bioche 5) J Biol Chem 281,	e 290, 2271-3. <i>Rev</i> 68, 109-31. <i>Chem</i> 275, 34833-6. 3-7. <i>em</i> 104, 1075-86. 39249-61. <i>USA</i> 105, 8079-84. 159-72.					
Species Reactivity	Species r	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: We	WB: Western Blotting							
Cross-Reactivity Key	X: Xenop	 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 							

Trademarks and Patents

Limited Uses

MCM7 Antibody (#4018) Datasheet Without Images Cell Signaling Technology

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.