3/23/24, 10:49 AM Revision 3

		lot for Use i Reactivity:	n Diagnostic Proce Sensitivity:	MW (kDa):	Source:	Orders: Support: Web: Lane Danvers Mas	BI Signaling C H N O L O G Y* 877-616-CELL (2355) orders@cellsignal.com 877-678-TECH (8324) info@cellsignal.com cellsignal.com ssachusetts 01923 USA
	WB	HMR	Endogenous	69, 78	Rabbit	#P02545	4000
	Product Usage Information Storage	W	pplication /estern Blotting Ipplied in 10 mM sodi	um HEPES (pH 7.5	5), 150 mM NaCl, 100	Dilution 1:1000 µg/ml BSA and 50%	glycerol. Store at –
	-	20	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 Source / Purification Background Background References			Phospho-Lamin A/C (Ser22) Antibody detects endogenous levels of lamin A/C only when phosphorylated at Ser22.				
		-	 Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser22 of human lamin A/C protein. Lamins are nuclear membrane structural components that are important in maintaining normal cell functions such as cell cycle control, DNA replication, and chromatin organization (1-3). Lamin A/C is cleaved by caspase-6 and serves as a marker for caspase-6 activation. During apoptosis, lamin A/C is specifically cleaved into a large (41-50 kDa) and a small (28 kDa) fragment (3,4). The cleavage of lamins results in nuclear dysregulation and cell death (5,6). Phosphorylation of Lamin A/C at Ser22 was identified <i>in vivo</i> in several cell lines by mass spectrometry analysis in proteomic screens. The surrounding sequence is a typical MAPK/CDK phosphorylation motif, which implicates a role in the cell cycle and mitosis (7-11). Gruenbaum, Y. et al. (2000) <i>J Struct Biol</i> 129, 313-23. Yabuki, M. et al. (1999) <i>Physiol Chem Phys Med NMR</i> 31, 77-84. Coldhorn, M. et al. (1900) <i>Crit Dav Evlagation Canae Struct</i> 0, 285-02. 				
		fur cle sp re: Ph an wh nces 1. 2.					
		4. 5. 6. 7. 8. 9.	 Goldberg, M. et al. (1999) <i>Crit Rev Eukaryot Gene Expr</i> 9, 285-93. Orth, K. et al. (1996) <i>J Biol Chem</i> 271, 16443-6. Oberhammer, F.A. et al. (1994) <i>J Cell Biol</i> 126, 827-37. Rao, L. et al. (1996) <i>J Cell Biol</i> 135, 1441-55. Lowery, D.M. et al. (2007) <i>EMBO J</i> 26, 2262-73. Molina, H. et al. (2007) <i>Proc Natl Acad Sci USA</i> 104, 2199-204. Beausoleil, S.A. et al. (2006) <i>Nat Biotechnol</i> 24, 1285-92. Nousiainen, M. et al. (2006) <i>Proc Natl Acad Sci USA</i> 103, 5391-6. Beausoleil, S.A. et al. (2004) <i>Proc Natl Acad Sci USA</i> 101, 12130-5. 				
	Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., weste					western blot).	
Western Blot Buffer Applications Key Cross-Reactivity Key Trademarks and Patents			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.				
		W	WB: Western Blotting				
		X: 2	 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 				
		All	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.				
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Phospho-Lamin A/C (Ser22) Antibody (#2026) Datasheet Without Images Cell Signaling Technology

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