#13448 Store at -20C

Orders:	877-616-CELL (2355) orders@cellsignal.com			
Support:	877-678-TECH (8324)			
Web:	info@cellsignal.com cellsignal.com			

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Phospho-Lamin A/C (Ser22) (D2B2E) Rabbit mAb

Applications: WB, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 69,78	Source/Isotype: Rabbit IgG	UniProt ID: #P02545	Entrez-Gene Id: 4000		
Product Usage Information	W	pplication /estern Blotting nmunoprecipitation			Dilution 1:1000 1:100			
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 / Sensi		Phospho-Lamin A/C (Ser22) (D2B2E) Rabbit mAb recognizes endogenous levels of lamin A/C protein only when phosphorylated at Ser22.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser22 of human lamin A/C protein.						
Background	fun cle spe res <i>in v</i> sec	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).						
Background Refer	2. \ 3. (4. (5. (6. F 7. L 8. N 9. F 10. N	 Gruenbaum, Y. et al. (2000) J Struct Biol 129, 313-23. Yabuki, M. et al. (1999) Physiol Chem Phys Med NMR 31, 77-84. Goldberg, M. et al. (1999) Crit Rev Eukaryot Gene Expr 9, 285-93. Orth, K. et al. (1996) J Biol Chem 271, 16443-6. Oberhammer, F.A. et al. (1994) J Cell Biol 126, 827-37. Rao, L. et al. (1996) J Cell Biol 135, 1441-55. Lowery, D.M. et al. (2007) EMBO J 26, 2262-73. Molina, H. et al. (2007) Proc Natl Acad Sci U S A 104, 2199-204. Beausoleil, S.A. et al. (2006) Nat Biotechnol 24, 1285-92. Nousiainen, M. et al. (2004) Proc Natl Acad Sci U S A 101, 12130-5. 						
Species Reactivity	spe	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot Buff		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	WE	WB: Western Blotting IP: Immunoprecipitation						
Cross-Reactivity k	X : >	 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	XP i All c	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. XP is a registered trademark of Cell Signaling Technology, Inc. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.						
Limited Uses								

Phospho-Lamin A/C (Ser22) (D2B2E) Rabbit mAb (#13448) Datasheet Without Images Cell Signaling Techn...

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.