3/23/24, 10:45 AM Revision 1

e at -20C	Lamin B2 (E1S1Q) Rabbit mAb		ell Signaling снмогоду [®]
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com
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For Research Use Only. I	For Research Use Only. Not for Use in Diagnostic Procedures.							
Applications: WB	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 68-70	Source/Isotype: Rabbit IgG	UniProt ID: #Q03252	Entrez-Gene Id: 84823		
Product Usage Information		Application Vestern 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. <i>Do not aliquot the antibody.</i>						
Specificity / Sensitivity		Lamin B2 (E1S1Q) Rabbit mAb recognizes endogenous levels of total lamin B2 protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu75 of human lamin B2 protein.						
Background	fui su of kE B2 Re pa Re de re an ge	nctions, such as cell of abdivided into types A the lamin A gene <i>LMI</i> Da) fragments, which of 2, encoded by separat esearch studies have athogenesis of the neu- esearch studies show effects and that both pri- sult in changes in nuc- ad lamin B2 inhibiting ene (<i>LMNB2</i>) can resu	cycle control, DN/ and B. Type-A la VA. Lamin A and can be used as n te genes (6-8). La shown that dupli- urological disorder that both lamin E roteins are essen clear morphology, elongation of neu- ilt in a susceptibi	A replication, and chrom A replication, and chrom mins consist of lamin A a C are cleaved by caspa narkers for apoptosis (4, amin B1 is also cleaved cation of the lamin B1 ge r adult-onset leukodystr 22 and lamin B1 knocko tial for typical brain deve with lamin B1 playing a uronal nuclei (11,12). Mu lity to developing acquir subcutaneous fat in a b	atin organization (1-3) and C, which arise fro ses into large (41-50 l 5). Type-B lamins con by caspases during a ene <i>LMNB1</i> is correlat ophy (10). ut mice exhibit neuron elopment. Lamin B1 at role in regulating nuc itations in the correspi ed partial lipodystroph	. Lamins have been m alternative splicing kDa) and small (28 isist of lamin B1 and poptosis (9). ted with nal developmental nd B2 deficiencies lear lamina integrity onding lamin B2 y, a rare disorder		
Background References		 Gruenbaum, Y. et al. (2000) J Struct Biol 129, 313-23. Goldberg, M. et al. (1999) Crit Rev Eukaryot Gene Expr 9, 285-93. Yabuki, M. et al. (1999) Physiol Chem Phys Med NMR 31, 77-84. Rao, L. et al. (1996) J Cell Biol 135, 1441-55. Orth, K. et al. (1996) J Biol Chem 271, 16443-6. Biamonti, G. et al. (1992) Mol Cell Biol 12, 3499-506. Lin, F. and Worman, H.J. (1995) Genomics 27, 230-6. Pollard, K.M. et al. (1990) Mol Cell Biol 10, 2164-75. Chandler, J.M. et al. (1997) Biochem J 322 (Pt 1), 19-23. Padiath, Q.S. et al. (2006) Nat Genet 38, 1114-23. Coffinier, C. et al. (2010) Proc Natl Acad Sci U S A 107, 5076-81. Coffinier, C. et al. (2006) Am J Hum Genet 79, 383-9. 						
Species Reactivity		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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						

Applications Key WB: Western Blotting

3/23/24, 10:45 AM Cross-Reactivity Key	 Lamin B2 (E1S1Q) Rabbit mAb (#13823) 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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