🙀 Lamin B2 (E1S1Q) Rabbit mAb



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Applications: W	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 68-70	Source/Isotype: Rabbit IgG	UniProt ID: #Q03252	Entrez-Gene Id: 84823	
Product Usage Information		Application Western 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/Sen	sitivity	Lamin B2 (E1S1Q) Rabbit mAb recognizes endogenous levels of total lamin B2 protein.					
Source / Purific	ication Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu75 of human lamin B2 protein.					prresponding to	
Background	BackgroundLamins are nuclear membrane structural components that are important in maintaining normal functions, such as cell cycle control, DNA replication, and chromatin organization (1-3). Lamins h been subdivided into types A and B. Type-A lamins consist of lamin A and C, which arise from alternative splicing of the lamin A gene <i>LMNA</i> . Lamin A and C are cleaved by caspases into large kDa) and small (28 kDa) fragments, which can be used as markers for apoptosis (4,5). Type-B lan consist of lamin B1 and B2, encoded by separate genes (6-8). Lamin B1 is also cleaved by caspas during apoptosis (9). Research studies have shown that duplication of the lamin B1 gene <i>LMNB</i> : correlated with pathogenesis of the neurological disorder adult-onset leukodystrophy (10). Research studies show that both lamin B2 and lamin B1 knockout mice exhibit neuronal develop defects and that both proteins are essential for typical brain development. Lamin B1 and B2 deficiencies result in changes in nuclear morphology, with lamin B1 playing a role in regulating i lamina integrity and lamin B2 inhibiting elongation of neuronal nuclei (11,12). Mutations in the corresponding lamin B2 gene (<i>LMNB2</i>) can result in a susceptibility to developing acquired parti lipodystrophy, a rare disorder characterized by the progressive loss of subcutaneous fat in a bila symmetrical fashion (13).						
Background Re	2. Goldberg, M. et al. (3. Yabuki, M. et al. (199 4. Rao, L. et al. (1996) 5. Orth, K. et al. (1996) 6. Biamonti, G. et al. (1 7. Lin, F. and Worman, 8. Pollard, K.M. et al. (7 9. Chandler, J.M. et al. 10. Padiath, Q.S. et al. 11. Coffinier, C. et al. (2 12. Coffinier, C. et al. (2)	et al. (2000) <i>J Struct Biol</i> 129, 313-23. t al. (1999) <i>Crit Rev Eukaryot Gene Expr</i> 9, 285-93. J. (1999) <i>Physiol Chem Phys Med NMR</i> 31, 77-84. 296) <i>J Cell Biol</i> 135, 1441-55. 1996) <i>J Cell Biol</i> 135, 1441-55. al. (1992) <i>Mol Cell Biol</i> 12, 3499-506. man, H.J. (1995) <i>Genomics</i> 27, 230-6. al. (1990) <i>Mol Cell Biol</i> 10, 2164-75. et al. (1997) <i>Biochem J</i> 322 (Pt 1), 19-23. et al. (2006) <i>Nat Genet</i> 38, 1114-23. c al. (2001) <i>Proc Natl Acad Sci U S A</i> 107, 5076-81. c al. (2011) <i>Mol Biol Cell</i> 22, 4683-93. t al. (2006) <i>Am J Hum Genet</i> 79, 383-9.					
Species Reactiv	vitv	Species reactivity is de	etermined by testing	n in at least one approve	ed application (e.g.,	western blot).	
•	-	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Western Blot B	uffer	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 Ke	ey	W: Western Blotting					
Cross-Reactivit	у Кеу	H: Human M: Mouse					
Trademarks an	d Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.					

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