န္မြန္ Lamin B1 (D4Q4Z) Rabbit mAb





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Applications: W, W-S	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 68, 25	Source/Isotype: Rabbit IgG	UniProt ID: #P20700	Entrez-Gene Id: 4001		
Product Usage Information		Application Western Blotting Simple Western™			Dilution 1:1000 1:10 - 1:50			
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/Sen	sitivity	Lamin B1 (D4Q4Z) Rabbit mAb recognizes endogenous levels of total lamin B1 protein. This antibody recognizes the 25 kDa lamin B1 amino terminal cleavage product produced during apoptosis.						
Species predic based on 100% homology		Monkey, Pig						
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu118 of human lamin B1 protein.						
Background		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). Lamins have 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 (41-50 kDa) and small (28 kDa) fragments, which can be used as markers for apoptosis (4,5). Type-B lamins consist of lamin B1 and B2, encoded by separate genes (6-8). Lamin B1 is also cleaved by caspases during apoptosis (9). Research studies have shown that duplication of the lamin B1 gene <i>LMNB1</i> is correlated with pathogenesis of the neurological disorder adult-onset leukodystrophy (10).						
Background Ro	eferences	 Gruenbaum, Y. et al. (2000) <i>J Struct Biol</i> 129, 313-23. Goldberg, M. et al. (1999) <i>Crit Rev Eukaryot Gene Expr</i> 9, 285-93. Yabuki, M. et al. (1999) <i>Physiol Chem Phys Med NMR</i> 31, 77-84. Rao, L. et al. (1996) <i>J Cell Biol</i> 135, 1441-55. Orth, K. et al. (1996) <i>J Biol Chem</i> 271, 16443-6. Biamonti, G. et al. (1992) <i>Mol Cell Biol</i> 12, 3499-506. Lin, F. and Worman, H.J. (1995) <i>Genomics</i> 27, 230-6. Pollard, K.M. et al. (1997) <i>Biochem J</i> 322 (Pt 1), 19-23. Padiath, Q.S. et al. (2006) <i>Nat Genet</i> 38, 1114-23. 						
Species Reacti	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot E	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 K	ey	W: Western Blotting W-S: Simple Western™						
Cross-Reactivit	ty Key	H: Human M: Mouse R: Rat						
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