Lamin B2 (D8P3U) Rabbit mAb



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

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Applications: W, IP, IF-IC	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 68	Source/Isotype: Rabbit IgG	UniProt ID: #Q03252	Entrez-Gene Id: 84823	
Product Usage Information	•	Application Western Blotting Immunoprecipitation Immunofluorescence (Immunocytochemistry)			1: 1:	Dilution 1:1000 1:100 1:50 - 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.				ol and less than	
Specificity/Sen	sitivity	Lamin B2 (D8P3U) Rabbit mAb recognizes endogenous levels of total lamin B2 protein.				in.	
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys435 of human lamin B2 protein.				prresponding to	
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). Research studies show that both lamin B2 and lamin B1 knockout mice exhibit neuronal developmental 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 nuclear 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 partial lipodystrophy, a rare disorder characterized by the progressive loss of subcutaneous fat in a bilaterally symmetrical fashion (13).					
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. Coffinier, C. et al. (2011) <i>Mol Biol Cell</i> 22, 4683-93. Hegele, R.A. et al. (2006) <i>Am J Hum Genet</i> 79, 383-9. 					
Species Reacti	vity	Species reactivity is de	etermined by testir	g in at least one approve	d application (e.g.,	western blot).	
Western Blot E	Buffer	IMPORTANT: For west TBS, 0.1% Tween® 20		membrane with diluted shaking, overnight.	primary antibody ii	n 5% w/v BSA, 1X	
Applications K	еу	W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)					
Cross-Reactivit	ty Key	H: Human Mk: Monke	еу				

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