

#15068 Store at -20°C

Lamin B1 (D9V6H) Rabbit mAb (HRP Conjugate)


Cell Signaling
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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H M R	Endogenous	68,45	Rabbit IgG	#P20700	4001

Product Usage Information	Application	Dilution
	Western Blotting	1:1000
Storage	Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at -20°C. Do not aliquot the antibodies.	
Specificity / Sensitivity	Lamin B1 (D9V6H) Rabbit mAb (HRP Conjugate) recognizes endogenous levels of total lamin B1 protein. This antibody recognizes the 45 kDa lamin B1 carboxy terminal cleavage product produced during apoptosis.	
Species predicted to react based on 100% sequence homology:	Bovine, Dog, Pig	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys415 of human lamin B1 protein.	
Product Description	This Cell Signaling Technology antibody is conjugated to the carbohydrate groups of horseradish peroxidase (HRP) via its amine groups. The HRP conjugated antibody is expected to exhibit the same species cross-reactivity as the unconjugated Lamin B1 (D9V6H) Rabbit mAb #13435.	

MW (kDa)

68,45

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 References	<ol style="list-style-type: none"> 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. (1990) <i>Mol Cell Biol</i> 10, 2164-75. Chandler, J.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 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**Cross-Reactivity Key**

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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