#13435 Store at -20C

Lamin B1 (D9V6H) Rabbit mAb



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Applications: WB, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 68, 45	Source/Isotype: Rabbit IgG	UniProt ID: #P20700	Entrez-Gene Id 4001
Product Usage Information	•	plication			Dilution	
mormation		estern Blotting munoprecipitation			1:1000 1:50	
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.				
Specificity / Sensitivity		Lamin B1 (D9V6H) Rabbit mAb 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	6	ine, 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.				
Background	func sub of th kDa B2, Res	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 Referer	2. G 3. Yo 4. R 5. O 6. B 7. Li 8. P 9. C	 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. 				

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 IP: Immunoprecipitation

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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Limited Uses

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