e at -20C	Emerin (D9B3) Rabbit mAb	T I	Cell Signaling	
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com	
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Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 30	Source/Isotype: Rabbit IgG	UniProt ID: #P50402	Entrez-Gene Id: 2010		
Product Usage Information	W	pplication /estern Blotting nmunoprecipitation			Dilution 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		Emerin (D9B3) Rabbit mAb detects endogenous level of total Emerin protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human Emerin protein.						
Background		Emerin is a broadly expressed integral protein of the nuclear inner membrane (1). It contains a LEM domain and binds to several nuclear proteins, such as BAF (barrier-to-autointegration factor) and A- and B- type lamins, which are important in nuclear functions (2-5). Emerin may regulate gene expression through binding to other transcriptional regulators (6,7). Emerin binds to β -catenin and inhibits its nuclear accumulation (8). Recent studies demonstrate that emerin is required for HIV-1 infectivity (9). Mutations in the gene encoding emerin (<i>EMD</i>) are a major cause of Emery-Dreifuss muscular dystrophy (EDMD), a disorder characterized by progressive skeletal muscle weakening (10).						
Background References		 Nagano, A. et al. (1996) <i>Nat. Genet.</i> 12, 254-259. Manilal, S. et al. (1998) <i>Biochem. Biophys. Res. Commun.</i> 249, 643-647. Clements, L. et al. (2000) <i>Biochem. Biophys. Res. Commun.</i> 267, 709-714. Lee, K.K. et al. (2001) <i>J. Cell Sci.</i> 114, 4567-4573. Bengtsson, L. and Wilson, K.L. (2006) <i>Mol. Biol. Cell</i> 17, 1154-1163. Holaska, J.M. et al. (2003) <i>J. Biol. Chem.</i> 278, 6969-6975. Haraguchi, T. et al. (2004) <i>Eur. J. Biochem.</i> 271, 1035-1045. Markiewicz, E. et al. (2006) <i>EMBO J.</i> 25, 3275-3285. Jacque, J.M. and Stevenson, M. (2006) <i>Nature</i> 441, 641-645. Holaska, J.M. and Wilson, K.L. (2006) <i>Anat. Rec. A Discov. Mol. Cell. Evol. Biol.</i> 288, 676-680. 						
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 BSA, 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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Emerin (D9B3) Rabbit mAb (#5430) Datasheet Without Images Cell Signaling Technology

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