1/1/24, 7:36 AM Revision 1

Emerin (D3B9G) XP [®] Rabbit mAb				
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com		
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Applications: WB, IP, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 30, 35	Source/Isotype: Rabbit IgG	UniProt ID: #P50402	Entrez-Gene Id: 2010		
Product Usage Information		Dication Stern Blotting				Dilution 1:1000		
		nunoprecipitation				1:50		
		nunofluorescence (Immunocytochen	nistry)		1:400		
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 / Sensitiv	vity Eme	Emerin (D3B9G) $XP^{ extsf{B}}$ Rabbit mAb recognizes endogenous levels of total emerin protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the amino terminus of human emerin protein.						
Background	doma type bindi accu the g	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 Refere	2. Ma 3. Cl 4. Le 5. Be 6. Ho 7. Ha 8. Ma 9. Ja	 Nagano, A. et al. (1996) Nat. Genet. 12, 254-259. Manilal, S. et al. (1998) Biochem. Biophys. Res. Commun. 249, 643-647. Clements, L. et al. (2000) Biochem. Biophys. Res. Commun. 267, 709-714. Lee, K.K. et al. (2001) J. Cell Sci. 114, 4567-4573. Bengtsson, L. and Wilson, K.L. (2006) Mol. Biol. Cell 17, 1154-1163. Holaska, J.M. et al. (2003) J. Biol. Chem. 278, 6969-6975. Haraguchi, T. et al. (2004) Eur. J. Biochem. 271, 1035-1045. Markiewicz, E. et al. (2006) EMBO J. 25, 3275-3285. Jacque, J.M. and Stevenson, M. (2006) Nature 441, 641-645. Holaska, J.M. and Wilson, K.L. (2006) Anat. Rec. A Discov. Mol. Cell. Evol. Biol. 288, 676-680. 						
Species Reactivity	Speci	es reactivity is dete	ermined by testing	g in at least one approve	ed application (e.g., w	vestern 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:	WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemist						
Cross-Reactivity Ke	X: Xe	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								

Emerin (D3B9G) XP® Rabbit mAb (#30853) Datasheet Without Images Cell Signaling Technology

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