## Emerin (D3B9G) XP<sup>®</sup> Rabbit mAb





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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W, IP, IF-IC	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 30, 35	<b>Source/Isotype:</b> Rabbit IgG			
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation Immunofluorescence (Imm	unocytochemistry)		<b>Dilution</b> 1:1000 1:50 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/Sensit	tivity	Emerin (D3B9G) XP $^{ extsf{8}}$ Rabbit mAb recognizes endogenous levels of total emerin protein.					
Source / Purificat	tion	Monoclonal antibody is produced by immunizing animals with recombinant protein specific to 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 $\beta$ -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 Refe	erences	<ol> <li>Nagano, A. et al. (1996) <i>Nat. Genet.</i> 12, 254-259.</li> <li>Manilal, S. et al. (1998) <i>Biochem. Biophys. Res. Commun.</i> 249, 643-647.</li> <li>Clements, L. et al. (2000) <i>Biochem. Biophys. Res. Commun.</i> 267, 709-714.</li> <li>Lee, K.K. et al. (2001) <i>J. Cell Sci.</i> 114, 4567-4573.</li> <li>Bengtsson, L. and Wilson, K.L. (2006) <i>Mol. Biol. Cell</i> 17, 1154-1163.</li> <li>Holaska, J.M. et al. (2003) <i>J. Biol. Chem.</i> 278, 6969-6975.</li> <li>Haraguchi, T. et al. (2004) <i>Eur. J. Biochem.</i> 271, 1035-1045.</li> <li>Markiewicz, E. et al. (2006) <i>FMBO J.</i> 25, 3275-3285.</li> <li>Jacque, J.M. and Stevenson, M. (2006) <i>Nature</i> 441, 641-645.</li> <li>Holaska, J.M. and Wilson, K.L. (2006) <i>Anat. Rec. A Discov. Mol. Cell. Evol. Biol.</i> 288, 676-680.</li> </ol>					
Species Reactivit	у	Species reactivity is determ	ined by testing in at le	east one approved application (	e.g., western blot).		
Western Blot Buf	ffer	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		W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)					
Cross-Reactivity	Кеу	H: Human M: Mouse R: Rat Mk: Monkey					
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