## HMGN2 (D9B9) XP<sup>®</sup> Rabbit mAb





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## For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP, IF-IC	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 17	Source/Isotype: Rabbit IgG	UniProt ID: #P05204	Entrez-Gene Id: 3151	
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation Immunofluorescence (	(Immunocytochem	istry)		<b>Dilution</b> 1:1000 1:200 1:6400	
Storage				), 150 mM NaCl, 100 μg/ ot aliquot the antibody.	/ml BSA, 50% glycer	rol and less than	
Specificity/Sensitivity		HMGN2 (D9B9) XP <sup>®</sup> Rabbit mAb recognizes endogenous levels of total HMGN2 protein. This antibody does not cross-react with other HMGN proteins.					
Species predicted to react based on 100% sequence homology		Bovine, Dog, Pig, Horse, Guinea Pig					
Source / Purifie	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp74 of human HMGN2 protein.				prresponding to	
Background		that bind DNA without regulate access to the (HMGN1-5), is characte charged domain, a nuc (1,2). HMGN proteins fit transcription factors, s where they can facilitar nucleosomal DNA and histone H1 for nucleos translational histone m H2A at Ser1 and increa the activity of several c HMGN2 (also known as ubiquitous and highly down-regulated throug undergoing active diffe mesenchyme to epithe structure in the nucleu tumor cells. Leukocyte secreting an array of a interleukin 2 (IL-2). Foll is released into the ext (residues 18 to 48), sho addition, the amino-ter carboxy-terminal regio	sequence specifici underlying DNA. The rized by the preser- cleosome binding of unction in transcrip uch as estrogen re- te either gene activ reduce compaction ome binding (6). In nodifications, decre ising acetylation of hromatin-remodeli s HMG17) expression expressed in all em ghout the embryo, erentiation, such as elium transition (11 us, HMGN2 also play s, which play a cent ntimicrobial protein lowing stimulation, tracellular environm bws strong antimicar minus of HMGN2 low in inhibits tumor in	superfamily of abundar ty and induce structural the HMGN family of prote- nee of several conserved lomain, and an acidic C- bitional regulation and an ceptor $\alpha$ (ER $\alpha$ ), serum re- vation or repression (3-5 the of the chromatin fiber, addition, HMGN protei- asing phosphorylation of histone H3 at Lys14 (7-5 ing factors and restrict ro- on is tightly linked to cel- bbryonic tissues. During except in committed, co- st the basal layer of the e- (12). In addition to its fu- ys a role in innate immu- tral role in the innate im- tent (13). HMGN2, more robial activity towards m- has been shown to cont vasion and metastasis (	changes to the chr eins, which includes terminal chromatin re recruited to gene sponsive factor (SR ). HMGN proteins b in part by competin ns act to modulate of histone H3 at Ser D. HMGN proteins of nucleosome mobilit lular differentiatior mouse embryogen ontinuously renewir pithelium and kidn nction in regulating inity against bacter imune defense in m e HMGN2 upon stim om the nucleus to t specifically the alp nultiple bacterial pa ain tumor homing	romatin fiber to s five members a positively i-unfolding domain e promoters by EF, and PITX2, bind specifically to ng with linker local levels of post- r10 and histone can also modulate by (10). h. HMGN2 is nessis, expression is ng cell types ey cells undergoing g chromatin ial pathogens and hammals by nulation with the cytoplasm and ha-helical domain thogens (13). In	
Background Re	eferences	1. Hock, R. et al. (2007) 2. Gerlitz, G. <i>Biochim B</i> 3. Zhu, N. and Hansen, 4. Amen, M. et al. (2008) 5. Belova, G.I. et al. (20 6. Catez, F. et al. (2002) 7. Lim, J.H. et al. (2004) 9. Postnikov, Y.V. et al.	Biophys Acta 1799, 8 U. (2007) Mol Cell B) Nucleic Acids Res 08) J Biol Chem 283 EMBO Rep 3, 760-1 EMBO J 24, 3038-4 Mol Cell 15, 573-84	30-5. <i>Biol</i> 27, 8859-73. 5 36, 462-76. 8, 8080-8. 6. 8. 4.			

	10. Rattner, B.P. et al. (2009) <i>Mol Cell</i> 34, 620-6. 11. Furusawa, T. et al. (2006) <i>Mol Cell Biol</i> 26, 592-604. 12. Lehtonen, S. and Lehtonen, E. (2001) <i>Differentiation</i> 67, 154-63. 13. Feng, Y. et al. (2005) <i>J Leukoc Biol</i> 78, 1136-41. 14. Porkka, K. et al. (2002) <i>Proc Natl Acad Sci USA</i> 99, 7444-9. 15. Isoai, A. et al. (1992) <i>Cancer Res</i> 52, 1422-6.	
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	W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)	
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey	
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