e at -20C	HMGN1 (D1I5O) Rabbit mAb			
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com	
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP, IF-IC	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 18	Source/Isotype: Rabbit IgG	UniProt ID: #P05114	Entrez-Gene Id: 3150		
Product Usage Information	We Im	oplication estern Blotting munoprecipitation munofluorescence (In	nmunocytochen	nistry)		Dilution 1:1000 1:50 1:1000		
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		HMGN1 (D1I5O) Rabbit mAb recognizes endogenous levels of total HMGN1 protein. This antibody does not cross-react with other HMGN proteins.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val32 of human HMGN1 protein.						
Background Background Referen	bind acc cha nuc fund esti ger con In a dec hist fact nces 1. F 2. G 3. Z 4. A 5. E 6. C 7. L 8. L 9. F	 High mobility group (HMG) proteins are a superfamily of abundant and ubiquitous nuclear proteins that bind DNA without sequence specificity and induce structural changes to the chromatin fiber to regulate access to the underlying DNA. The HMGN family of proteins, which includes five members (HMGN1-5), is characterized by the presence of several conserved protein domains: a positively charged domain, a nucleosome binding domain, and an acidic C-terminal chromatin-unfolding domain (1,2). HMGN proteins function in transcriptional regulation and are recruited to gene promoters by transcription factors, such as estrogen receptor α (ERα), serum responsive factor (SRF), and PITX2, where they can facilitate either gene activation or repression (3-5). HMGN proteins bind specifically to nucleosome binding (6). In addition, HMGN proteins act to modulate local levels of post-translational histone modifications, decreasing phosphorylation of histone H3 at Ser10 and histone H2A at Ser1 and increasing acetylation of histone H3 at Lys14 (7-9). HMGN proteins can also modulate the activity of several chromatin-remodeling factors and restrict nucleosome mobility (10). 1. Hock, R. et al. (2007) <i>Trends Cell Biol</i> 17, 72-9. 2. Gerlitz, G. <i>Biochim Biophys Acta</i> 1799, 80-5. 3. Zhu, N. and Hansen, U. (2007) <i>Mol Cell Biol</i> 27, 8859-73. 4. Amen, M. et al. (2008) <i>J Biol Chem</i> 283, 8080-8. 6. Catez, F. et al. (2008) <i>J Biol Chem</i> 283, 8080-8. 6. Catez, F. et al. (2003) <i>EMBO J</i> 24, 3038-48. 8. Lim, J.H. et al. (2004) <i>Mol Cell</i> 15, 57-364. 9. Postnikov, YV. et al. (2006) <i>Biochemistry</i> 45, 15092-9. 10. Rattner, B.P. et al. (2009) <i>Mol Cell</i> 34, 620-6. 						
Species Reactivity	Spe	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 IF-IC: Immunofluorescence (Immunocytochemistry)						
Cross-Reactivity Ke	X : X	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

HMGN1 (D1I5O) Rabbit mAb (#12734) Datasheet Without Images Cell Signaling Technology

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