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## Nanog (D73G4) XP<sup>®</sup> Rabbit mAb (ChIP Formulated)



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

Applications: Reactivi ChIP, ChIP-seq, C&R, H C&T	<b>ty: Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #Q9H9S0	Entrez-Gene Id: 79923			
Product Usage Information		For optimal ChIP and ChIP-seq results, use 10 μl of antibody and 10 μg of chromatin (approximately 4 x 10 <sup>6</sup> cells) per IP. This antibody has been validated using SimpleChIP <sup>®</sup> Enzymatic Chromatin IP Kits.					
	The CUT&RUN dilution v	The CUT&RUN dilution was determined using CUT&RUN Assay Kit #86652.					
	The CUT&Tag dilution wa	The CUT&Tag dilution was determined using CUT&Tag Assay Kit #77552.					
	<b>Application</b> Chromatin IP Chromatin IP-seq CUT&RUN CUT&Tag			<b>Dilution</b> 1:50 1:50 1:50 1:50			
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/Sensitivity	Nanog (D73G4) XP <sup>®</sup> Rab	Nanog (D73G4) XP $^{ extsf{@}}$ Rabbit mAb (ChIP Formulated) detects endogenous levels of total nanog protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the amino terminus of human nanog protein.					
Background	Nanog is a homeodomain-containing transcription factor that is essential for the maintenance of pluripotency and self renewal in embryonic stem cells (1). Nanog expression is controlled by a network of factors including Sox2 and the key pluripotency regulator Oct-4 (1). Recent advances in somatic cell reprogramming have utilized viral expression of combinations of transcription factors including nanog, Oct-4, Sox2, KLF4, c-Myc, and LIN28 (2,3).						
Background References	2. Takahashi, K. et al. (20	1. Kim, J. et al. (2008) <i>Cell</i> 132, 1049-61. 2. Takahashi, K. et al. (2007) <i>Nat Protoc</i> 2, 3081-9. 3. Yu, J. et al. (2007) <i>Science</i> 318, 1917-20.					
Species Reactivity	Species reactivity is dete	rmined by testing in at le	east one approved ap	plication (e.g., western blot).			
Applications Key	ChIP: Chromatin IP ChI	ChIP: Chromatin IP ChIP-seq: Chromatin IP-seq C&R: CUT&RUN C&T: CUT&Tag					
Cross-Reactivity Key	H: Human						
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