## **Nanog Antibody**



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

<b>Applications:</b> W, IF-IC, FC-FP, ChIP	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 42	<b>Source/Isotype:</b> Rabbit	
Product Usage Information		For optimal ChIP results, use 20 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.			
		Application Western Blotting Immunofluorescence (Imi Flow Cytometry (Fixed/Per Chromatin IP	•		<b>Dilution</b> 1:1000 1:800 1:400 1:25
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.			
Specificity/Sensitivity		Nanog Antibody detects endogenous levels of total nanog protein.			
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino acid sequence at the N-terminus of human nanog. Antibodies are purified by Protein A and peptide affinity chromatography.			
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 Refe	rences	1. Kim, J. et al. (2008) <i>Cell</i> 2. Takahashi, K. et al. (200 3. Yu, J. et al. (2007) <i>Science</i>	7) <i>Nat Protoc</i> 2, 3081	9.	
Species Reactivity	/	Species reactivity is determ	mined 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		<b>W:</b> Western Blotting <b>IF-IC:</b> Immunofluorescence (Immunocytochemistry) <b>FC-FP:</b> Flow Cytometry (Fixed/Permeabilized) <b>ChIP:</b> Chromatin IP			
Cross-Reactivity <b>k</b>	Кеу	<b>H:</b> Human			
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