Nanog Antibody

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Applications: R B, IF-IC, FC-FP, ChIP	eactivity: H	Sensitivity: Endogenous	MW (kDa): 42	Source: Rabbit	UniProt ID: #Q9H9S0	Entrez-Gene lo 79923	
Product Usage Information	For This	For optimal ChIP results, use 20 μ I of antibody and 10 μ g of chromatin (approximately 4 x 10 ⁶ cells) per IP. This antibody has been validated using SimpleChIP [®] Enzymatic Chromatin IP Kits.					
	Ар	plication				Dilution	
	We	stern Blotting				1:1000	
	Imr	nunofluorescence (Immunocytochemis	try)		1:800	
	Flo	w Cytometry (Fixed	l/Permeabilized)			1:400	
	Ch	romatin IP				1:25	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sensitivi	ty Nan	og Antibody detects	s endogenous levels	of total nanog prot	ein.		
Source / Purification Polyclonal antibodies are produced by immunizing an amino acid sequence at the N-terminus of human nar 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, Oc 4, Sox2, KLF4, c-Myc, and LIN28 (2,3).					lled by a network of in somatic cell	
Background Referen	2. Ta	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	Spec	ies reactivity is dete	ermined by testing i	n at least one appro	ved application (e.g., w	restern 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 IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized) ChIP: Chromatin IP					
Cross-Reactivity Key	X: Xe	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogas 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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Nanog Antibody (#3580) Datasheet Without Images Cell Signaling Technology

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