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Nanog Antibody (Mouse Specific)

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	M	Endogenous	42	Rabbit	#Q80Z64	71950
Product Usage Information	Application		Dilution			
	Western Blotting		1:1000			
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 (Mouse Specific) recognizes endogenous levels of total mouse nanog protein.					
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of mouse nanog protein. 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 References	<ol style="list-style-type: none"> Kim, J. et al. (2008) <i>Cell</i> 132, 1049-61. Takahashi, K. et al. (2007) <i>Nat Protoc</i> 2, 3081-9. Yu, J. et al. (2007) <i>Science</i> 318, 1917-20. 					

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
Cross-Reactivity Key	M: Mouse
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