

#4893 Store at -20C

Nanog (1E6C4) Mouse mAb



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IHC-P, IF-IC, FC-FP	H	Endogenous	42	Mouse IgG1	#Q9H9S0	79923

Product Usage Information	Application	Dilution
	Western Blotting	1:1000
	Immunohistochemistry (Paraffin)	1:6400 - 1:25600
	Immunofluorescence (Immunocytochemistry)	1:2000
	Flow Cytometry (Fixed/Permeabilized)	1:1600 - 1:6400
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 (1E6C4) Mouse mAb detects endogenous levels of total nanog protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with recombinant 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	<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	WB: Western Blotting IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)
Cross-Reactivity Key	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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