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Nanog (D73G4) XP[®] Rabbit mAb (PE Conjugate)

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

Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
FC-FP	H	Endogenous	Rabbit IgG	#Q9H9S0	79923
Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)			Dilution 1:50	
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibodies. Protect from light. Do not freeze.				
Specificity/Sensitivity	Nanog (D73G4) XP [®] Rabbit mAb (PE Conjugate) recognizes endogenous levels of total nanog protein.				
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human nanog protein.				
Description	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Nanog (D73G4) XP [®] Rabbit mAb #4903.				
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).

Applications Key **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key **H:** Human

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