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## Nanog (D2A3) XP<sup>®</sup> Rabbit mAb (PE Conjugate)

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

<b>Applications:</b> FC-FP	<b>Reactivity:</b> M	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q80Z64	<b>Entrez-Gene Id:</b> 71950
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<b>Product Usage Information</b>	<b>Application</b> Flow Cytometry (Fixed/Permeabilized)	<b>Dilution</b> 1:50
<b>Storage</b>	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.	
<b>Specificity/Sensitivity</b>	Nanog (D2A3) XP <sup>®</sup> Rabbit mAb (PE Conjugate) recognizes endogenous levels of total mouse nanog protein. This antibody is expected to recognize nanog 1a and 1b isoforms. This antibody does not cross-react with human nanog.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of mouse nanog protein.	
<b>Description</b>	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometric analysis in mouse cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Nanog (D2A3) XP <sup>®</sup> Rabbit mAb #8822.	
<b>Background</b>	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).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>Kim, J. et al. (2008) <i>Cell</i> 132, 1049-61.</li> <li>Takahashi, K. et al. (2007) <i>Nat Protoc</i> 2, 3081-9.</li> <li>Yu, J. et al. (2007) <i>Science</i> 318, 1917-20.</li> </ol>	
<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).	
<b>Applications Key</b>	<b>FC-FP:</b> Flow Cytometry (Fixed/Permeabilized)	
<b>Cross-Reactivity Key</b>	<b>M:</b> Mouse	
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