Oct-4A (C30A3) Rabbit mAb (PE Conjugate)



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Applications: FC-FP	Reactivity: H M	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #Q01860	Entrez-Gene Id: 5460
Product Usage Information		Application Flow Cytometry (Fixed/Po	ermeabilized)		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		Oct-4A (C30A3) Rabbit mAb (PE Conjugate) recognizes endogenous levels of total Oct-4A protein.			
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the amino terminus of human Oct-4A.			
Description		This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Oct-4A (C30A3) Rabbit mAb #2840.			
Background		Oct-4 (POU5F1) is a transcription factor highly expressed in undifferentiated embryonic stem cells and embryonic germ cells (1). A network of key factors that includes Oct-4, Nanog, and Sox2 is necessary for the maintenance of pluripotent potential, and downregulation of Oct-4 has been shown to trigger cell differentiation (2,3). Research studies have demonstrated that Oct-4 is a useful germ cell tumor marker (4). Oct-4 exists as two splice variants, Oct-4A and Oct-4B (5). Recent studies have suggested that the Oct-4A isoform has the ability to confer and sustain pluripotency, while Oct-4B may exist in some somatic, non-pluripotent cells (6,7).			
Background References		1. Looijenga, L.H. et al. (2003) <i>Cancer Res</i> 63, 2244-50. 2. Pesce, M. and Schöler, H.R. (2001) <i>Stem Cells</i> 19, 271-278. 3. Pan, G. and Thomson, J.A. (2007) <i>Cell Res</i> 17, 42-9. 4. Cheng, L. et al. (2007) <i>J Pathol</i> 211, 1-9. 5. Takeda, J. et al. (1992) <i>Nucleic Acids Res</i> 20, 4613-20. 6. Cauffman, G. et al. (2006) <i>Stem Cells</i> 24, 2685-91. 7. Lee, J. et al. (2006) <i>J Biol Chem</i> 281, 33554-65.			

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 M: Mouse

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