

5263

Oct-4A (C30A3) Rabbit mAb (Alexa Fluor® 647 Conjugate)



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

| Applications: IF-IC, FC-FP | Reactivity: H M | Sensitivity: Endogenous | Source/Isotype: Rabbit IgG | UniProt ID: #Q01860 | Entrez-Gene Id: 5460 |
|--------------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------|-----------------------------------------|
| Product Usage Information | | Application Immunofluorescence (In Flow Cytometry (Fixed/Po | | | Dilution 1:50 - 1:200 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 antibody. Protect from light. Do not freeze. | | | |
| Specificity/Sensitivity | | Oct-4A (C30A3) Rabbit mAb (Alexa Fluor $^{\rm @}$ 647 Conjugate) detects 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 protein. | | | |
| Description | | This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 647 fluorescent dye and tested in-house for direct flow cytometry and immunofluorescent analysis in human cells. The 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 | | Looijenga, L.H. et al. (2003) Cancer Res 63, 2244-50. Pesce, M. and Schöler, H.R. (2001) Stem Cells 19, 271-278. Pan, G. and Thomson, J.A. (2007) Cell Res 17, 42-9. Cheng, L. et al. (2007) J Pathol 211, 1-9. Takeda, J. et al. (1992) Nucleic Acids Res 20, 4613-20. Cauffman, G. et al. (2006) Stem Cells 24, 2685-91. Lee, J. et al. (2006) J Biol Chem 281, 33554-65. | | | |
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Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human **M:** Mouse

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