Oct-4A (C30A3) Rabbit mAb (Alexa Fluor® 555 Conjugate)



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Applications: F	Reactivity: H M	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #Q01860	Entrez-Gene Id: 5460	
Product Usage Information	Ap	plication			Dilution	
	Imr	nunofluorescence	(Immunocytochemistry)		1:100	
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 / Sensitiv	- ,	Oct-4A (C30A3) Rabbit mAb (Alexa Fluor® 555 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.				
Product Description	hous	This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 555 fluorescent dye and tested inhouse for immunofluorescent 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	emb the r diffe Oct- isofo	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 Referen	2. Pe	 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. 				

Species Reactivity

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

Applications Key

IF-IC: Immunofluorescence (Immunocytochemistry)

5. Takeda, J. et al. (1992) Nucleic Acids Res 20, 4613-20. 6. Cauffman, G. et al. (2006) Stem Cells 24, 2685-91. 7. Lee, J. et al. (2006) J Biol Chem 281, 33554-65.

4. Cheng, L. et al. (2007) J Pathol 211, 1-9.

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key**

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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