Oct-4 Antibody Cell Signaling 0rders: 877-616-CELL (2355)
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: , IHC-P, IF-IC, FC-FP, ChIP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 45	Source/Isotype: Rabbit	
Product Usage Information		For optimal ChIP results, u IP. This antibody has been	use 20 μl of antibody a validated using Simp	and 10 μg of chromatin (appro leChIP [®] Enzymatic Chromatir	oximately 4 x 10 ⁶ cells) pe n IP Kits.
		Application Western Blotting Immunohistochemistry (F Immunofluorescence (Im Flow Cytometry (Fixed/Pe Chromatin IP	munocytochemistry)		Dilution 1:1000 1:800 1:200 1:400 1:25
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.			
Specificity/Sensitivity		Oct-4 Antibody detects endogenous levels of total Oct-4 protein.			
Species predicted based on 100% se homology	l to react equence	Monkey			
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino acids near the carboxy terminus of human Oct-4. Antibodies are purified by peptide affinity chromatography.			
Background		Oct-4 (POU5F1) is a transcription factor highly expressed in undifferentiated of embryonic germ cells (1). A network of key factors that includes Oct-4, Nanoo for the maintenance of pluripotent potential, and downregulation of Oct-4 ha cell differentiation (2,3). Research studies have demonstrated that Oct-4 is a of marker (4). Oct-4 exists as two splice variants, Oct-4A and Oct-4B (5). Recent so that the Oct-4A isoform has the ability to confer and sustain pluripotency, wh some somatic, non-pluripotent cells (6,7).			g, and Sox2 is necessary as been shown to trigger useful germ cell tumor studies have suggested
Background References		1. Looijenga, L.H. et al. (20 2. Pesce, M. and Schöler, H 3. Pan, G. and Thomson, J 4. Cheng, L. et al. (2007) <i>J</i> 5. Takeda, J. et al. (1992) A 6. Cauffman, G. et al. (200 7. Lee, J. et al. (2006) <i>J Bio</i>	H.R. (2001) <i>Stem Cells</i> A. (2007) <i>Cell Res</i> 17, <i>Pathol</i> 211, 1-9. <i>Jucleic Acids Res</i> 20, 4 6) <i>Stem Cells</i> 24, 2685	19, 271-278. 42-9. 613-20. 5-91.	
Species Reactivit	y	Species reactivity is detern	mined by testing in at	least one approved application	on (e.g., western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.			
Applications Key		W: Western Blotting IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized) ChIP: Chromatin IP			
Cross-Reactivity l	Key	H: Human			
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