e at -20C	Oct-4 (9B7) Mouse mAb			
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com	
86		Support:	877-678-TECH (8324)	
428		Web:	info@cellsignal.com cellsignal.com	
#		3 Trask Lane Danvers Ma	ssachusetts 01923 USA	

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

Applications: WB, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 45	Source/Isotype: Mouse IgG1	UniProt ID: #Q01860	Entrez-Gene Id: 5460		
Product Usage Information	We	plication estern Blotting			Dilution 1:1000			
Storage	Sup	•		7.5), 150 mM NaCl, 100		erol and less than		
Specificity / Sensitiv		0.02% sodium azide. Store at -20°C. Do not aliquot the antibody. Oct-4 (9B7) Mouse mAb detects endogenous levels of total Oct-4 protein.						
Source / Purification	-	Monoclonal antibody is produced by immunizing animals with recombinant human Oct-4 protein.						
Background	Oct emb the diffe Oct isofe	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 Refere	2. P 3. P 4. C 5. Ti 6. C	boijenga, L.H. et al. (esce, M. and Schöle an, G. and Thomson heng, L. et al. (2007) akeda, J. et al. (1992 auffman, G. et al. (20 ee, J. et al. (2006) J i	r, H.Ŕ. (2001) Si , J.A. (2007) Ce) J Pathol 211, 1) Nucleic Acids)006) Stem Cells	tem Cells 19, 271-278. ll Res 17, 42-9. 9. Res 20, 4613-20. 24, 2685-91.				
Species Reactivity	Spec	ies reactivity is deter	mined by testine	g in at least one approve	ed application (e.g., we	estern 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	WB	WB: Western Blotting IP: Immunoprecipitation						
Cross-Reactivity Ke	X: X	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster 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						
Trademarks and Patents	All of	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.						
Limited Uses	follov cond	Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.						
	appr Cust that	Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the						

Oct-4 (9B7) Mouse mAb (#4286) Datasheet Without Images Cell Signaling Technology

end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.