e at -20C	Sox2 (C70B1) Rabbit mAb			
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com	
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	y, Not for 03c in Diagnostic i roccut	1103.

Applications: WB, IHC-P	Reactivity M	: Sensitivity: Endogenous	MW (kDa): 35	Source/Isotype: Rabbit	UniProt ID: #P48431	Entrez-Gene Id: 6657		
Product Usage Information		Application Western Blotting Immunohistochemistry	(Paraffin)		1	ilution :1000 :250		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity / Sensit	tivity	Sox2 (C70B1) Rabbit mAb detects endogenous levels of Sox2 protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to amino acid sequences at the carboxy-terminal region of mouse Sox2.						
Background		Embryonic stem cells (ESC) derived from the inner cell mass of the blastocyst are unique in their pluripotent capacity and potential for self-renewal (1). Research studies demonstrate that a set of transcription factors that includes Oct-4, Sox2, and Nanog forms a transcriptional network that maintains cells in a pluripotent state (2,3). Chromatin immunoprecipitation experiments show that Sox2 and Oct-4 bind to thousands of gene regulatory sites, many of which regulate cell pluripotency and early embryonic development (4,5). siRNA knockdown of either Sox2 or Oct-4 results in loss of pluripotency (6). Induced overexpression of Oct-4 and Sox2, along with additional transcription factors Klf4 and c-Myc, can reprogram both mouse and human somatic cells to a pluripotent state (7,8). Additional evidence demonstrates that Sox2 is also present in adult multipotent progenitors that give rise to some adult epithelial tissues, including several glands, the glandular stomach, testes, and cervix. Sox2 is thought to regulate target gene expression important for survival and regeneration of these tissues (9).						
Background Refer		1. Conley, B.J. et al. (200 2. Pesce, M. and Schöle 3. Pan, G. and Thomson 4. Boyer, L.A. et al. (2006) 5. Loh, Y.H. et al. (2006) 6. Matin, M.M. et al. (2007) 7. Takahashi, K. and Yar 8. Okita, K. et al. (2011) 9. Arnold, K. et al. (2011)	r, H.R. (2001) So , J.A. (2007) Ce 5) Cell 122, 947 Nat Genet 38, 4 04) Stem Cells 2 nanaka, S. (200 Nature 448, 313	tem Cells 19, 271-8. ll Res 17, 42-9. -56. I31-40. 2, 659-68. 6) Cell 126, 663-76. I-7.				
Species Reactivity	, s	Species reactivity is deter	rmined 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 TE 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Key	,	WB: Western Blotting IH	C-P: Immunohis	stochemistry (Paraffin)				
Cross-Reactivity K	×	 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 						
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Sox2 (C70B1) Rabbit mAb (#3728) Datasheet Without Images Cell Signaling Technology

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