Revision 3						
Sox2 (D6D9) XP [®] Rabbit mAb (Alexa Fluor [®] 488 Conjugate)				Cell SignalingT E C H N O L O G Y*Orders:877-616-CELL (2355)		
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#5049				Web:	info@cellsignal.com cellsignal.com	
				Trask Lane Danvers Ma	ssachusetts 01923 USA	
For Research Use Only Applications:	Not for Use Reactivity	-	cedures. Source/Isotype:	UniProt ID:	Entrez-Gene Id:	
IF-IC, FC-FP	H	Endogenous	Rabbit	#P48431	6657	
Product Usage		Application			Dilution	
Information		••	(Immunocytochemistry)		1:50	
		Flow Cytometry (Fixe			1:50	
Storage		Supplied in PBS (pH 7 antibody. Protect from	.2), less than 0.1% sodium azide light. Do not freeze.	and 2 mg/ml BSA. Store at 4	P°C. Do not aliquot the	
Specificity / Sensitivity		Sox2 (D6D9) XP [®] Rabbit mAb (Alexa Fluor [®] 488 Conjugate) detects endogenous levels of total Sox2 protein.				
Species predicted react based on 10 sequence homolo	0%	Monkey, Bovine, Dog,	Horse, Goat			
Source / Purificati		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly179 of human Sox2 protein.				
Product Description		house for direct flow cy	chnology antibody is conjugated to tometry and immunofluorescent a ecies cross-reactivity as the unco	analysis in human cells. The	antibody is expected	
Background		pluripotent capacity an transcription factors th cells in a pluripotent st bind to thousands of g development (4,5). siR overexpression of Oct- reprogram both mouse demonstrates that Sox epithelial tissues, inclu	ESC) derived from the inner cell i d potential for self-renewal (1). Re at includes Oct-4, Sox2, and Nam ate (2,3). Chromatin immunoprec ene regulatory sites, many of whic NA knockdown of either Sox2 or 4 and Sox2, along with additional and human somatic cells to a plu 2 is also present in adult multipot ding several glands, the glandula kpression important for survival an	esearch studies demonstrate og forms a transcriptional ne ipitation experiments show tl ch regulate cell pluripotency Oct-4 results in loss of plurip I transcription factors Klf4 an uripotent state (7,8). Addition ent progenitors that give rise r stomach, testes, and cervix	e that a set of twork that maintains nat Sox2 and Oct-4 and early embryonic otency (6). Induced d c-Myc, can al evidence to some adult & Sox2 is thought to	
Background Refer		2. Pesce, M. and Schö 3. Pan, G. and Thomso 4. Boyer, L.A. et al. (200 5. Loh, Y.H. et al. (200 6. Matin, M.M. et al. (2 7. Takahashi, K. and Y 8. Okita, K. et al. (2007	6) Nat Genet 38, 431-40. 004) Stem Cells 22, 659-68. amanaka, S. (2006) Cell 126, 663	71-8.		

9. Arnold, K. et al. (2011) Cell Stem Cell 9, 317-29.

Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot). IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized) **Applications Key Cross-Reactivity Key**

1/1/24, 10:52 AM	 Sox2 (D6D9) XP® Rabbit mAb (Alexa Fluor® 488 Conjugate) (#5049) Datasheet Without Images Cell Sigr 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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