Store at -20C	KLF4 (D1F2) Rabbit mAb	T E	Cell Signaling TECHNOLOGY®	
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Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 62	Source/Isotype: Rabbit IgG	UniProt ID: #O43474	Entrez-Gene Id: 9314		
Product Usage Information	We	pplication estern Blotting munoprecipitation			Dilution 1:1000 1:100			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity / Sensitivity		KLF4 (D1F2) Rabbit mAb recognizes endogenous levels of total KLF4 protein.						
Species predicted react based on 10 sequence homolo	0%	nkey						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human KLF protein.						
Background		KLF4 is a member of the erythroid Kruppel-like factor (EKLF) multigene family that is highly expressed in the differentiating layers of the epidermis (1, 2). KLF4 plays a critical role in the differentiation of epithelial cells and is essential for normal gastric homeostasis (2,3). Depending on the target gene, KLF4 can function as both a repressor and activator of transcription (4). Research studies suggest this protein may function as either a tumor suppressor or an oncogene depending on tumor type, with up-regulation in human squamous cell carcinoma of the head and neck and down-regulation in colorectal carcinoma (5,6). The <i>in vitro</i> reprogramming of somatic cells to an embryonic-like state has been achieved by retroviral transduction of four factors: Oct-3/4, Sox2, c-Myc, and KLF4 (7). These induced pluripotent stem cells (iPS) are of great therapeutic interest as they exhibit the key characteristics and growth properties of pluripotent stem cells (8,9).						
Background Refe	2. S 3. K 4. E 5. F 6. F 7. T 8. N	 Yet, S.F. et al. (1998) J Biol Chem 273, 1026-31. Segre, J.A. et al. (1999) Nat Genet 22, 356-60. Katz, J.P. et al. (2005) Gastroenterology 128, 935-45. Evans, P.M. and Liu, C. (2008) Acta Biochim Biophys Sin (Shanghai) 40, 554-64. Foster, K.W. et al. (2005) Oncogene 24, 1491-500. Rowland, B.D. and Peeper, D.S. (2006) Nat Rev Cancer 6, 11-23. Takahashi, K. and Yamanaka, S. (2006) Cell 126, 663-76. Meissner, A. et al. (2007) Nat Biotechnol 25, 1177-81. Park, I.H. et al. (2008) Nature 451, 141-6. 						
Species Reactivity		Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot Buff	0.	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 Cross-Reactivity Key		: Western Blotting IP:	: Immunoprecipi	tation				
		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

Limited Uses

KLF4 (D1F2) Rabbit mAb (#12173) Datasheet Without Images Cell Signaling Technology

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