PRDM14 (E1D5S) XP[®] Rabbit mAb



Orders:	877-616-CELL (2355) orders@cellsignal.com
Support:	877-678-TECH (8324)
Web:	info@cellsignal.com cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: W, IP, IF-IC, FC-FP, ChIP, ChIP-seq	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 70	Source/Isotype: Rabbit IgG	UniProt ID: #Q9GZV8	Entrez-Gene Id: 63978
Product Usage Information		For optimal ChIP and C 10 ⁶ cells) per IP. This a	ChIP-seq results, us ntibody has been va	e 10 μl of antibody and ΄ alidated using SimpleCh	10 μg of chromatin IP [®] Enzymatic Chro	(approximately 4 x omatin IP Kits.
		Application				Dilution
		Western Blotting				1:1000
		Immunoprecipitation				1:100
		Immunofluorescence	(Immunocytochemi	stry)		1:400
		Flow Cytometry (Fixed	/Permeabilized)			1:800
		Chromatin IP				1:50
		Chromatin IP-seq				1:50
Storage		Supplied in 10 mM soc 0.02% sodium azide. S	lium HEPES (pH 7.5 tore at –20°C. Do no), 150 mM NaCl, 100 µg/ ot aliquot the antibody.	ml BSA, 50% glycer	ol and less than
Specificity/Sens	itivity	PRDM14 (E1D5S) XP [®] F	Rabbit mAb recogni	zes endogenous levels c	of total PRDM14 pro	otein.
Source / Purifica	ation	Monoclonal antibody i to human PRDM14 pro	s produced by imm otein.	unizing animals with ful	l-length recombina	nt protein specific
Background		PR domain zinc finger expressed in primordia establishment and ma pluripotency in embryo stem cells into various polycomb repressive c combination with Jarid levels are overexpress cancer (NSCLC) (10-13) (14). Targeting PRDM1 metastasis in a murine cancers where this pro	protein 14 (PRDM1- al germ cells and pl intenance of primo ponic stem cells (1-3) cell lineages, likely omplex 2 (PRC2), ar 2 promotes induce ed in certain cancer , and PRDM14 over 4 overexpression w e pancreatic cancer stein is abnormally	4) is a likely protein lysin uripotent embryonic ste rdial germ cells and criti I. PRDM14 represses ger via a combination of int nd CBFA2T2 (3-8). In add d pluripotent stem cell (i s, including breast, leuk expression may serve as ith a siRNA-based theraj model, suggesting pote expressed (15).	e methyltransferas m cells. It is essent cal for the mainten hes involved in the eractions with TET ition, overexpressio iPSC) formation (9), emia (T-ALL), and n s a novel prognosti- py was shown to de ntial as a therapeur	te that is primarily ial for the differentiation of proteins, the on of PRDM14 in . PRDM14 protein on-small cell lung c marker in NSCLC ecrease liver tic option for
Background Re	ferences	1. Yamaji, M. et al. (200 2. Chia, N.Y. et al. (2010 3. Tsuneyoshi, N. et al. 4. Ma, Z. et al. (2011) A 5. Okashita, N. et al. (2015) 7. Nady, N. et al. (2015) 8. Tu, S. et al. (2016) A 9. Iseki, H. et al. (2016) 10. Moelans, C.B. et al. 11. Nishikawa, N. et al. 12. Carofino, B.L. et al. 13. Liu, B. et al. (2010) 14. Zhang, T. et al. (201	 Nat Genet 40, 10 Nature 468, 316-2 (2008) Biochem Biol lat Struct Mol Biol 1 014) Development 3) Cell Stem Cell 12 cell Stem Cell 12 Elife 4, e10150. ature 534, 387-90. Stem Cells 34, 322- (2010) Mod Pathol (2007) Cancer Res (2013) Dis Model N Zhongguo Fei Ai Za Med Oncol 30, 6 17) Carcinogenesis 	016-22. 20. 57 phys Res Commun 367, 8, 120-7. 141, 269-80. 2, 368-82. 33. 23, 1029-39. 67, 9649-57. 1ech 6, 1494-506. 57 hi 13, 867-72. 05. 38, 638-648.	899-905.	
Snacios Paartiv	itv	Species reactivity is de	termined by testing	in at least one approve	d application (e.g.	western blot)
Species Reactiv	ity	Species reactivity is de	termined by testing	in at least one approve	a application (e.g.,	
Western Blot Bu	uffer	IMPORTANT: For weste TBS, 0.1% Tween® 20 a	ern blots, incubate i at 4°C with gentle s	membrane with diluted haking, overnight.	primary antibody ir	ר 5% w/v BSA, 1X

Applications Key	W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) FC- FP: Flow Cytometry (Fixed/Permeabilized) ChIP: Chromatin IP ChIP-seq: Chromatin IP-seq		
Cross-Reactivity Key	H: Human		
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.		
	Alexa Fluor is a registered trademark of Life Technologies Corporation.		
	All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.		
Limited Uses	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.		
	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 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 any trademarks, trade names, logos, patent or copyright notices or markings, (d) use 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.		