FoxO1 (C29H4) Rabbit mAb			echnology®	
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com	
0		Support:	877-678-TECH (8324)	
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#	3 Trask	Lane   Danvers   I	Massachusetts   01923   USA	
For Research Use Only. Not for Use in Diagnostic Procedures.				
	t <b>ivity: Sensitivity: MW (kDa): Source/Isotype:</b> R Mk Endogenous 78 to 82 Rabbit IgG	UniProt ID: #Q12778	Entrez-Gene Id: 2308	
Product Usage Information	Application		Dilution	
information	Western Blotting		1:1000	
	Immunoprecipitation		1:100	
	Immunohistochemistry (Paraffin)		1:50 - 1:200	
	Immunofluorescence (Immunocytochemistry)		1:50 - 1:200	
	Flow Cytometry (Fixed/Permeabilized)		1:100 - 1:200	
	Chromatin IP		1:50	
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 10( 0.02% sodium azide. Store at –20°C. Do not aliquot the antiboo		glycerol and less than	
	For a carrier free (BSA and azide free) version of this product s	ee product #29336	б.	
Specificity / Sensitivity	FoxO1 (C29H4) Rabbit mAb detects endogenous levels of total detect exogenously expressed family members FoxO3a or Fox	•	he antibody does not	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a GST-fusion protein corresponding to carboxy-terminal residues of human FoxO1.		in corresponding to	
Background	The Forkhead family of transcription factors is involved in tumor leukemias (1-3). Within the family, three members (FoxO1, Fox to the nematode orthologue DAF-16, which mediates signaling Akt (4-6). Active forkhead members act as tumor suppressors be Increased expression of any FoxO member results in the activa Forkhead transcription factors also play a part in TGF- $\beta$ -mediat negatively regulated through PI3K (7). Increased proliferation re are inactivated through phosphorylation by Akt at Thr24, Ser256 export and inhibition of transcription factor activity (8). Forkhead by the deacetylase sirtuin (SirT1) (9).	O4, and FoxO3a) via a pathway invo y promoting cell c tion of the cell cyc ed upregulation of esults when forkhe 6, and Ser319, wh	have sequence similarity olving IGFR1, PI3K, and ycle arrest and apoptosis. de inhibitor p27 Kip1. p21 Cip1, a process ad transcription factors ich results in nuclear	
Background References	<ol> <li>Anderson, M.J. et al. (1998) <i>Genomics</i> 47, 187-99.</li> <li>Galili, N. et al. (1993) <i>Nat Genet</i> 5, 230-5.</li> <li>Borkhardt, A. et al. (1997) <i>Oncogene</i> 14, 195-202.</li> <li>Nakae, J. et al. (1999) <i>J Biol Chem</i> 274, 15982-5.</li> <li>Rena, G. et al. (1999) <i>J Biol Chem</i> 274, 17179-83.</li> <li>Guo, S. et al. (1999) <i>J Biol Chem</i> 274, 17184-92.</li> <li>Seoane, J. et al. (2004) <i>Cell</i> 117, 211-23.</li> <li>Arden, K.C. (2004) <i>Mol Cell</i> 14, 416-8.</li> <li>Yang, Y. et al. (2005) <i>EMBO J</i> 24, 1021-32.</li> </ol>			
Species Reactivity	Species reactivity is determined by testing in at least one approv	red application (e.g	g., western 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: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized) ChIP: Chromatin IP			

1/1/24, 11:19 AM Cross-Reactivity Key	FoxO1 (C29H4) Rabbit mAb (#2880) Datasheet Without Images Cell Signaling Technology 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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