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 FoxO1 (C29H4) Rabbit mAb (Alexa Fluor® 647 Conjugate)
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	tivity: Sensitivity: Source/Isotype: R Mk Endogenous Rabbit IgG	UniProt ID:Entrez-Gene Id:#Q127782308
Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)	Dilution 1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 antibody. Protect from light. Do not freeze.	
Specificity / Sensitivity	FoxO1 (C29H4) Rabbit mAb (Alexa Fluor $^{\textcircled{8}}$ 647 Conjugate) de protein. The antibody does not detect exogenously expressed	
Source / Purification	Monoclonal antibody is produced by immunizing animals with carboxy-terminal residues of human FoxO1.	a GST-fusion protein corresponding to
Product Description	This Cell Signaling Technology antibody is conjugated to Alex house for direct flow cytometry and immunofluorescent analys to exhibit the same species cross-reactivity as the unconjugat	sis in human cells. The antibody is expected
Background	The Forkhead family of transcription factors is involved in tumorigenesis of rhabdomyosarcoma and acute leukemias (1-3). Within the family, three members (FoxO1, FoxO4, and FoxO3a) have sequence similarity to the nematode orthologue DAF-16, which mediates signaling via a pathway involving IGFR1, PI3K, and Akt (4-6). Active forkhead members act as tumor suppressors by promoting cell cycle arrest and apoptosis. Increased expression of any FoxO member results in the activation of the cell cycle inhibitor p27 Kip1. Forkhead transcription factors also play a part in TGF- β -mediated upregulation of p21 Cip1, a process negatively regulated through PI3K (7). Increased proliferation results when forkhead transcription factors are inactivated through phosphorylation by Akt at Thr24, Ser256, and Ser319, which results in nuclear export and inhibition of transcription factor activity (8). Forkhead transcription factors can also be inhibited by the deacetylase sirtuin (SirT1) (9).	
Background References	 Anderson, M.J. et al. (1998) <i>Genomics</i> 47, 187-99. Galili, N. et al. (1993) <i>Nat Genet</i> 5, 230-5. Borkhardt, A. et al. (1997) <i>Oncogene</i> 14, 195-202. Nakae, J. et al. (1999) <i>J Biol Chem</i> 274, 15982-5. Rena, G. et al. (1999) <i>J Biol Chem</i> 274, 17179-83. Guo, S. et al. (1999) <i>J Biol Chem</i> 274, 17184-92. Seoane, J. et al. (2004) <i>Cell</i> 117, 211-23. Arden, K.C. (2004) <i>Mol Cell</i> 14, 416-8. Yang, Y. et al. (2005) <i>EMBO J</i> 24, 1021-32. 	
Species Reactivity	Species reactivity is determined by testing in at least one appr	oved application (e.g., western blot).
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)	
Cross-Reactivity Key	 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: viru X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cer GP: Guinea Pig Rab: rabbit All: all species expected 	-
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