## FoxO1 (C29H4) Rabbit mAb (Alexa Fluor<sup>®</sup> 647 Conjugate) 728



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Applications: FC-FP	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q12778	Entrez-Gene Id: 2308		
Product Usage Information		<b>Application</b> Flow Cytometry (Fixed/P	ermeabilized)		Dilution 1:50		
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not a antibody. Protect from light. Do not freeze.					
Specificity/Sensitivity		FoxO1 (C29H4) Rabbit mAb (Alexa Fluor <sup>®</sup> 647 Conjugate) detects endogenous levels of total FoxO1 protein. The antibody does not detect exogenously expressed family members FoxO3a or FoxO4.					
Source / Purificat	tion		noclonal antibody is produced by immunizing animals with a GST-fusion protein corresponding to boxy-terminal residues of human FoxO1.				
Description		This Cell Signaling Technology antibody is conjugated to Alexa Fluor <sup>®</sup> 647 fluorescent dye and tested in-house for direct flow cytometry and immunofluorescent analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated FoxO1 (C29H4) Rabbit mAb #2880.					
<b>Background</b> The Forkhead family of transcription factors is involved in tumorigenesis of rhabdomyosarcol acute leukemias (1-3). Within the family, three members (FoxO1, FoxO4, and FoxO3a) have se similarity to the nematode orthologue DAF-16, which mediates signaling via a pathway involv PI3K, and Akt (4-6). Active forkhead members act as tumor suppressors by promoting cell cyc and apoptosis. Increased expression of any FoxO member results in the activation of the cell inhibitor p27 Kip1. Forkhead transcription factors also play a part in TGF-β-mediated upregula p21 Cip1, a process negatively regulated through PI3K (7). Increased proliferation results whe forkhead transcription factors are inactivated through phosphorylation by Akt at Thr24, Ser25 Ser319, which results in nuclear export and inhibition of transcription factor activity (8). Forkh transcription factors can also be inhibited by the deacetylase sirtuin (SirT1) (9).							
Background Refe	erences	1. Anderson, M.J. et al. (1 2. Galili, N. et al. (1993) A 3. Borkhardt, A. et al. (199 4. Nakae, J. et al. (1999) J 5. Rena, G. et al. (1999) J 6. Guo, S. et al. (1999) J 7. Seoane, J. et al. (2004) 8. Arden, K.C. (2004) <i>Mol</i> 9. Yang, Y. et al. (2005) <i>El</i>	<i>Vat Genet</i> 5, 230-5. 197) <i>Oncogene</i> 14, 195-20 <i>Biol Chem</i> 274, 15982-5. <i>Biol Chem</i> 274, 17179-83 <i>Biol Chem</i> 274, 17184-92. <i>Cell</i> 117, 211-23. <i>Cell</i> 14, 416-8.	)2.			
Species Reactivit	y	Species reactivity is dete	rmined by testing in at le	ast one approved ap	olication (e.g., western blot).		
Applications Key		FC-FP: Flow Cytometry (Fixed/Permeabilized)					
Cross-Reactivity	Key	H: Human M: Mouse R: Rat Mk: Monkey					
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