

FoxO3a (D19A7) Rabbit mAb (PE Conjugate)



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Applications: FC-FP	Reactivity: H M R	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #O43524	Entrez-Gene Id: 2309
Product Usage Information		Application Flow Cytometry (Fixed/P	ermeabilized)		Dilution 1:50
Storage		Supplied in PBS (pH 7.2), antibodies. Protect from		zide and 2 mg/ml BS	A. Store at 4°C. <i>Do not aliquot the</i>
Specificity/Sensitivity		FoxO3a (D19A7) Rabbit mAb (PE Conjugate) recognizes endogenous levels of total FoxO3a protein.			
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the carboxy terminus of human FoxO3 protein.			
Description		This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated FoxO3a (D19A7) Rabbit mAb #12829.			
Background The Forkhead family of transcription factors is involved in tumorigenesis of rhabdomyosard acute leukemias (1-3). Within the family, three members (FoxO1, FoxO4, and FoxO3a) have similarity to the nematode orthologue DAF-16, which mediates signaling via a pathway invo PI3K, and Akt (4-6). Active forkhead members act as tumor suppressors by promoting cell cy and apoptosis. Increased expression of any FoxO member results in the activation of the ce inhibitor p27 Kip1. Forkhead transcription factors also play a part in TGF-β-mediated upregu p21 Cip1, a process negatively regulated through PI3K (7). Increased proliferation results where the forkhead transcription factors are inactivated through phosphorylation by Akt at Thr24, Ser Ser319, which results in nuclear export and inhibition of transcription factor activity (8). For transcription factors can also be inhibited by the deacetylase sirtuin (SirT1) (9).					A, and FoxO3a) have sequence ing via a pathway involving IGFR1, rs by promoting cell cycle arrest he activation of the cell cycle GF-β-mediated upregulation of oroliferation results when by Akt at Thr24, Ser256, and factor activity (8). Forkhead
Background Refere	nces	1. Anderson, M.J. et al. (1998) <i>Genomics</i> 47, 187-99. 2. Galili, N. et al. (1993) <i>Nat Genet</i> 5, 230-5. 3. Borkhardt, A. et al. (1997) <i>Oncogene</i> 14, 195-202. 4. Nakae, J. et al. (1999) <i>J Biol Chem</i> 274, 15982-5. 5. Rena, G. et al. (1999) <i>J Biol Chem</i> 274, 17179-83. 6. Guo, S. et al. (1999) <i>J Biol Chem</i> 274, 17184-92. 7. Seoane, J. et al. (2004) <i>Cell</i> 117, 211-23. 8. Arden, K.C. (2004) <i>Mol Cell</i> 14, 416-8. 9. Yang, Y. et al. (2005) <i>EMBO J</i> 24, 1021-32.			

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key H: Human M: Mouse R: Rat

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