## FoxO3a (75D8) Rabbit mAb (Biotinylated)



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

Applications: W	Reactivity: H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 82 to 97	Source/Isotype: Rabbit IgG	<b>UniProt ID:</b> #043524	Entrez-Gene Id: 2309
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000	
Storage		Supplied in 140 mM NaCl, 3 mM KCI, 10 mM sodium phosphate (pH 7.4) dibasic, 2 mM potassium phosphate monobasic, 2 mg/mL BSA, and 50% glycerol. Store at –20°C. <i>Do not aliquot the antibody.</i>				
Specificity/Sensitivity		FoxO3a (75D8) Rabbit mAb (Biotinylated) detects endogenous levels of total FoxO3a protein. The antibody does not cross-react with other members of the FoxO4 or FoxO1 families.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu50 of human FoxO3a.				
Description		This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The unconjugated FoxO3a (75D8) Rabbit mAb #2497 reacts with human, mouse and rat FoxO3a protein. CST expects that FoxO3a (75D8) Rabbit mAb (Biotinylated) will also recognize FoxO3a in these species.				
Background		acute leukemias (1-3). similarity to the nema PI3K, and Akt (4-6). Ac and apoptosis. Increa inhibitor p27 Kip1. Fo p21 Cip1, a process no forkhead transcription Ser319, which results	Within the family, to atode orthologue DA ctive forkhead mem sed expression of a rkhead transcription egatively regulated in factors are inactive in nuclear export an	ors is involved in tumori hree members (FoxO1, NF-16, which mediates si bers act as tumor suppr ny FoxO member results n factors also play a part through PI3K (7). Increa ated through phosphory nd inhibition of transcrip l by the deacetylase sirti	FoxO4, and FoxO3a gnaling via a pathvessors by promoting in the activation of the TGF-β-mediated sed proliferation replation by Akt at The thing factor activity	) have sequence vay involving IGFR1, g cell cycle arrest f the cell cycle I upregulation of sults when c24, Ser256, and
Background References		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).

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 W: Western Blotting

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

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