# 9466

# Phospho-FoxO3a (Ser253) Antibody



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

<b>Applications:</b> W, IP	Reactivity: H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 97	Source/Isotype: Rabbit	<b>UniProt ID:</b> #O43524	Entrez-Gene Id: 2309
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:50	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Phospho-Fox03a (Ser253) Antibody detects endogenous levels of Fox03a only when phosphorylated at serine 253.				
Species predicted to react based on 100% sequence homology		Chicken				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to the sequence of human Fox03a. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		acute leukemias (1-3). National similarity to the nemative PI3K, and Akt (4-6). Active and apoptosis. Increase inhibitor p27 Kip1. Fork p21 Cip1, a process negforkhead transcription Ser319, which results in transcription factors call n Fox03a, the three sit Fox03a associates with	Within the family, tode orthologue Doive forkhead memed expression of a knead transcription gatively regulated factors are inactively nuclear export an also be inhibited as phosphorylated 14-3-3 proteins upval factors, Fox03a	ors is involved in tumori three members (FoxO1, AF-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 transcript by the deacetylase sirtual by Akt mentioned abov toon phosphorylation by this dephosphorylated, transism (7).	FoxO4, and FoxO3a gnaling via a pathwessors by promoting in the activation of the formal in TGF-β-mediated sed proliferation replation by Akt at The fotion factor activity uin (SirT1) (9).	) have sequence yay involving IGFR1, g cell cycle arrest f the cell cycle upregulation of sults when 24, Ser256, and (8). Forkhead 3 and Ser315. in the cytoplasm.
Background References		1. Anderson, M.J. et al. 2. Galili, N. et al. (1993) 3. Borkhardt, A. et al. (1 4. Nakae, J. et al. (1999) 5. Rena, G. et al. (1999) 6. Guo, S. et al. (1999) 7. Seoane, J. et al. (2004) 8. Arden, K.C. (2004) <i>M</i> 9. Yang, Y. et al. (2005)	Nat Genet 5, 230- 1997) Oncogene 14 1 J Biol Chem 274, 1 Biol Chem 274, 17 Biol Chem 274, 17 14) Cell 117, 211-23 15 Cell 14, 416-8.	5. 1, 195-202. 15982-5. 7179-83. 184-92.		
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**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 IP: Immunoprecipitation

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

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