Phospho-FoxO3a (Ser7) Antibody		Cell Signaling	
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com	
724	Support:	877-678-TECH (8324)	
#14724	Web:	info@cellsignal.com cellsignal.com	
#	3 Trask Lane   Danvers   Mas	ssachusetts 01923 USA	
For Research Use Only. Not for Use in Diagnostic Procedures.			

Applications: WB	<b>Reactivity:</b> H M R	Sensitivity: Endogenous	<b>MW (kDa):</b> 82-97	Source: Rabbit	<b>UniProt ID:</b> #O43524	Entrez-Gene Id: 2309		
Product Usage Information		Application Vestern Blotting			Dilution 1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity / Sen		oxO3a (Ser7) Antibody er7.	recognizes endogenous levels of FoxO3a protein only when phosphorylated at					
Source / Purifica	re	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser7 of human FoxO3a protein. Antibodies are purified by protein A and peptide affinity chromatography.						
Background	le to Al In Fi ar ex by	ukemias (1-3). Within the nematode ortholo kt (4-6). Active forkhea creased expression of orkhead transcription f egatively regulated thro re inactivated through	the family, three m gue DAF-16, which d members act as any FoxO member actors also play a pough PI3K (7). Incr phosphorylation by transcription factor in (SirT1) (9).	embers (FoxO1, Fo: n mediates signaling tumor suppressors r results in the activ part in TGF-β-media eased proliferation n Akt at Thr24, Ser25 activity (8). Forkhea	origenesis of rhabdomyo (O4, and FoxO3a) have (via a pathway involving by promoting cell cycle a ation of the cell cycle inf ted upregulation of p21 results when forkhead tr 56, and Ser319, which re d transcription factors ca localization (10).	sequence similarity I IGFR1, PI3K, and arrest and apoptosis. hibitor p27 Kip1. Cip1, a process anscription factors esults in nuclear		
Background Ref	2. 3. 4. 5. 6. 7. 8. 9.	Anderson, M.J. et al. Galili, N. et al. (1993) Borkhardt, A. et al. (19 Nakae, J. et al. (1999) Rena, G. et al. (1999) Guo, S. et al. (1999) Seoane, J. et al. (200 Arden, K.C. (2004) <i>M</i> Yang, Y. et al. (2005) Ho, K.K. et al. (2012)	Nat Genet 5, 230- 997) Oncogene 14 ) J Biol Chem 274, J Biol Chem 274, 1 J Biol Chem 274, 1 4) Cell 117, 211-2: ol Cell 14, 416-8. EMBO J 24, 1021-	5. , 195-202. 15982-5. 17179-83. 7184-92. 3.				
Species Reactiv	<b>ity</b> Sp	ecies reactivity is dete	rmined by testing i	n at least one appro	ved application (e.g., we	estern blot).		
Western Blot Bu	-	PORTANT: For wester % Tween® 20 at 4°C		ubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, shaking, overnight.				
Applications Ke	y w	B: Western Blotting						
Cross-Reactivity	X:	Xenopus <b>Z:</b> zebrafish	B: bovine Dg: dog	t <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster :: bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse it <b>All:</b> all species expected				
Trademarks and Patents	All		y is a trademark of Cell Signaling Technology, Inc. the property of their respective owners. Visit cellsignal.com/trademarks for more					

information.

Phospho-FoxO3a (Ser7) Antibody (#14724) Datasheet Without Images Cell Signaling Technology

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