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## Akt (pan) (C67E7) Rabbit mAb (Alexa Fluor<sup>®</sup> 647 Conjugate)



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Applications: IF-IC, FC-FP	<b>Reactivity:</b> H M R Mk Dm	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P31751, #Q9Y243, #P31749	Entrez-Gene Id: 208, 10000, 207	
Product Usage Information		<b>Application</b> Immunofluorescence (Im Flow Cytometry (Fixed/Pe			<b>Dilution</b> 1:50 - 1:100 1:50	
Storage		Supplied in PBS (pH 7.2), la antibody. Protect from lig		azide and 2 mg/ml BSA. 9	Store at 4°C. Do not aliquot the	
Specificity/Sensitivity		Akt (pan) (C67E7) Rabbit mAb (Alexa Fluor <sup>®</sup> 647 Conjugate) detects endogenous levels of total Akt protein. This antibody does not cross-react with other related proteins.				
Species predicted to react based on 100% sequence homology		Pig				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus sequence of mouse Akt.				
Description		in-house for direct flow cy	tometry and immuno	fluorescent analysis in hu	7 fluorescent dye and tested ıman cells. This antibody is d Akt (pan) (C67E7) Rabbit mAb	
Background		This protein kinase is active wortmannin-sensitive pata activation loop phosphory terminus at Ser473. The p been identified as mammerictor and Sin1 (5,6). Akt p inactivation of several target caspase-9. PTEN phospha LY294002 is a specific PI3 glycogen synthesis throug play a role in insulin stimu glycogen synthesis, Akt is phosphorylation and degr kinase inhibitors p27 Kip1 directly phosphorylating r	vated by insulin and va hway involving PI3 kin vlation at Thr308 by PE reviously elusive PDK2 alian target of rapamy romotes cell survival k gets, including Bad (7), tase is a major negativ kinase inhibitor (11). A gh phosphorylation an ilation of glucose trans- involved in cell cycle r radation of cyclin D1 (1 (15) and p21 Waf1/Cij nTOR in a rapamycin-s	arious growth and surviva ase (2,3). Akt is activated DK1 (4) and by phosphory Presponsible for phosphory responsible for phosphor cin (mTOR) in a rapamyci y inhibiting apoptosis th forkhead transcription for re regulator of the PI3K/A mother essential Akt fund d inactivation of GSK-3a sport (12). In addition to i egulation by preventing ( (4) and by negatively regu- pt (16). Akt also plays a c sensitive complex contain	by phospholipid binding and vlation within the carboxy orylation of Akt at Ser473 has in-insensitive complex with rough phosphorylation and factors (8), c-Raf (9), and Akt signaling pathway (10). ction is the regulation of and $\beta$ (12,13). Akt may also its role in survival and GSK-3 $\beta$ -mediated ulating the cyclin-dependent ritical role in cell growth by	
Background Refe	rences	1. Franke, T.F. et al. (1997) 2. Burgering, B.M. and Co 3. Franke, T.F. et al. (1995) 4. Alessi, D.R. et al. (1996) 5. Sarbassov, D.D. et al. (20 6. Jacinto, E. et al. (2006) <i>C</i> 7. Cardone, M.H. et al. (19 8. Brunet, A. et al. (1999) <i>C</i> 9. Zimmermann, S. and M 10. Cantley, L.C. and Neel, 11. Vlahos, C.J. et al. (2001) 13. Cross, D.A. et al. (1995)	ffer, P.J. (1995) <i>Nature</i> <i>Cell</i> 81, 727-36. <i>EMBO J</i> 15, 6541-51. 005) <i>Science</i> 307, 1098 <i>Cell</i> 127, 125-37. 98) <i>Science</i> 282, 1318- <i>Cell</i> 96, 857-68. oelling, K. (1999) <i>Scier</i> B.G. (1999) <i>Proc Natl</i> <i>J Biol Chem</i> 269, 524 <i>J FEBS Lett</i> 492, 199-2	8-101. 21. Ace 286, 1741-4. Acad Sci USA 96, 4240-5. 1-8.		

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Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).			
Applications Key	IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)			
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey Dm: D. melanogaster			
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