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Akt3 Antibody



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Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 60	Source/Isotype: Rabbit	UniProt ID: #Q9Y243	Entrez-Gene Id: 10000
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:25	
Storage		Supplied in 10 mM sodi 20°C. Do not aliquot the), 150 mM NaCl, 100 μg/	ml BSA and 50% gly)	/cerol. Store at –
Specificity/Sens	sitivity	Akt3 Antibody detects endogenous levels of total Akt3, but does not recognize the truncated form of rat Akt3. The antibody does not cross-react with recombinant Akt1 or Akt2.				
Source / Purific	ation	5		munizing animals with a urified by protein A and		
Background		terminus at Ser473. The been identified as mam rictor and Sin1 (5,6). Ak inactivation of several t caspase-9. PTEN phosp LY294002 is a specific P glycogen synthesis thro play a role in insulin stin glycogen synthesis, Akt phosphorylation and de kinase inhibitors p27 Ki directly phosphorylatin	ctivated by insulin bathway involving orylation at Thr308 e previously elusive malian target of r t promotes cell sur argets, including E hatase is a major r '13 kinase inhibitor bugh phosphorylat mulation of glucos c is involved in cell egradation of cycli ip1 (15) and p21 W g mTOR in a rapar horylates and inac	and various growth and PI3 kinase (2,3). Akt is ac 3 by PDK1 (4) and by pho	survival factors to f ctivated by phospho posphorylation withir phosphorylation of <i>J</i> apamycin-insensitive tosis through phosp ription factors (8), c- e PI3K/Akt signaling Akt function is the r GSK-3 α and β (12,13 tion to its role in sui enting GSK-3 β -med vely regulating the c lays a critical role in containing raptor (function in a lipid binding and h the carboxy Akt at Ser473 has e complex with ohorylation and Raf (9), and pathway (10). egulation of b). Akt may also rvival and iated yclin-dependent cell growth by 17). More
Background Re	ferences	1. Franke, T.F. et al. (199 2. Burgering, B.M. and 3. Franke, T.F. et al. (199 4. Alessi, D.R. et al. (199 5. Sarbassov, D.D. et al. 6. Jacinto, E. et al. (2006 7. Cardone, M.H. et al. (2006 7. Cardone, M.H. et al. (1999 9. Zimmermann, S. and 10. Cantley, L.C. and Ne 11. Vlahos, C.J. et al. (199 12. Hajduch, E. et al. (201 13. Cross, D.A. et al. (199 14. Diehl, J.A. et al. (199 15. Gesbert, F. et al. (200 16. Zhou, B.P. et al. (200 17. Navé, B.T. et al. (2002 19. Manning, B.D. et al.	Coffer, P.J. (1995) N 25) Cell 81, 727-36. 26) EMBO J 15, 654 (2005) Science 307 26) Cell 127, 125-37. 27) 1998) Science 282 27) Cell 96, 857-68. 28] Moelling, K. (1999) 29(4) J Biol Chem 26 29(4) J Biol Chem 27 29(5) Nature 378, 78 28) Genes Dev 12, 37 29(0) J Biol Chem 27 20(1) Nat Cell Biol 3, 69 29(1) Nat Cell Biol 4, 64 20(1) State	1-51. 7, 1098-101. , 1318-21. 9) <i>Science</i> 286, 1741-4. <i>c Natl Acad Sci USA</i> 96, 4 9, 5241-8. , 199-203. 55-9. 4499-511. 5, 39223-30. 245-52. Pt 2, 427-31. 48-57.	.240-5.	

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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