Phospho-Akt (Thr308) (244F9) Rabbit mAb





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Applications: W, W-S, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 60	Source/Isotype: Rabbit IgG	UniProt ID: #P31751, #Q9Y243, #P31749	Entrez-Gene Id: 208, 10000, 207	
Product Usage Information		Application Western Blotting Simple Western™ Immunoprecipitation			Dilution 1:1000 1:50 - 1:250 1:100		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity/Sensitivity		Phospho-Akt (Thr308) (244F9) Rabbit mAb detects endogenous levels of Akt only when phosphorylated at threonine 308.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues around Thr308 of mouse Akt.					
Background		Akt, also referred to as This protein kinase is a wortmannin-sensitive p activation loop phosph- terminus at Ser473. The been identified as marr 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 sti glycogen synthesis, Akt phosphorylation and de kinase inhibitors p27 Ki directly phosphorylatin importantly, Akt phospl raptor complex (18,19).	ctivated by insulin bathway involving orylation at Thr308 e previously elusive malian target of r t promotes cell su argets, including E hatase is a major r 13 kinase inhibitor ugh phosphorylat mulation of glucos is involved in cell egradation of cycli p1 (15) and p21 W g mTOR in a rapar horylates and inac	and various growth ar PI3 kinase (2,3). Akt is 3 by PDK1 (4) and by p e PDK2 responsible for apamycin (mTOR) in a rvival by inhibiting apo Bad (7), forkhead trans negative regulator of t to (11). Another essentia tion and inactivation o se transport (12). In ad cycle regulation by pro n D1 (14) and by nega laf1/Cip1 (16). Akt also nycin-sensitive comple	nd survival factors to fu activated by phospholi hosphorylation within r phosphorylation of Al rapamycin-insensitive optosis through phosph cription factors (8), c-R he PI3K/Akt signaling p al Akt function is the re f GSK-3 α and β (12,13). dition to its role in surv eventing GSK-3 β -media tively regulating the cy plays a critical role in co ex containing raptor (12)	inction in a pid binding and the carboxy kt at Ser473 has complex with norylation and af (9), and bathway (10). gulation of . Akt may also <i>v</i> ival and ated clin-dependent cell growth by 7). More	
Background References		 Franke, T.F. et al. (1997) <i>Cell</i> 88, 435-7. Burgering, B.M. and Coffer, P.J. (1995) <i>Nature</i> 376, 599-602. Franke, T.F. et al. (1995) <i>Cell</i> 81, 727-36. Alessi, D.R. et al. (1996) <i>EMBO J</i> 15, 6541-51. Sarbassov, D.D. et al. (2005) <i>Science</i> 307, 1098-101. Jacinto, E. et al. (2006) <i>Cell</i> 127, 125-37. Cardone, M.H. et al. (1998) <i>Science</i> 282, 1318-21. Brunet, A. et al. (1999) <i>Cell</i> 96, 857-68. Zimmermann, S. and Moelling, K. (1999) <i>Science</i> 286, 1741-4. Cantley, L.C. and Neel, B.G. (1999) <i>Proc Natl Acad Sci USA</i> 96, 4240-5. Vlahos, C.J. et al. (2001) <i>FBS Lett</i> 492, 199-203. Cross, D.A. et al. (1998) <i>Genes Dev</i> 12, 3499-511. Gesbert, F. et al. (2001) <i>J Biol Chem</i> 275, 39223-30. Zhou, B.P. et al. (2001) <i>Nat Cell Biol</i> 3, 245-52. Navé, B.T. et al. (2002) <i>Nat Cell Biol</i> 4, 648-57. Manning, B.D. et al. (2002) <i>Mol Cell</i> 10, 151-62. 					

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 W-S: Simple Western™ IP: Immunoprecipitation				
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey				
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