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6839

Akt1 (C73H10) Rabbit mAb (Biotinylated)



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Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 60	Source/Isotype: Rabbit IgG	UniProt ID: #P31749	Entrez-Gene Id: 207
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage				nM sodium phosphate (p d 50% glycerol. Store at -		
Specificity/Sens	itivity	Akt1 (C73H10) Rabbit does not cross-react w		detects endogenous leve	els of total Akt1 prot	tein. This antibody
Source / Purifica	ation	Monoclonal antibody of human Akt1 proteir		unizing animals with a s	synthetic peptide su	rrounding Leu110
Description			is expected to exhib	s conjugated to biotin ur bit the same species cros		
Background		This protein kinase is a wortmannin-sensitive activation loop phosph terminus at Ser473. Th been identified as mai rictor and Sin1 (5,6). A inactivation of several caspase-9. PTEN phos LY294002 is a specific glycogen synthesis this play a role in insulin st glycogen synthesis, Al phosphorylation and o kinase inhibitors p27 H	activated by insulin pathway involving norylation at Thr30 ne previously elusiv mmalian target of r kt promotes cell su targets, including f phatase is a major PI3 kinase inhibitor rough phosphoryla cimulation of glucos ct is involved in cell degradation of cycli Kip1 (15) and p21 W ng mTOR in a rapar phorylates and inac	a critical role in controlli and various growth and PI3 kinase (2,3). Akt is ac 3 by PDK1 (4) and by pho e PDK2 responsible for p apamycin (mTOR) in a ra- rvival by inhibiting apop Bad (7), forkhead transcr negative regulator of the (11). Another essential cion and inactivation of (ie transport (12). In addi cycle regulation by prev n D1 (14) and by negativa af1/Cip1 (16). Akt also p nycin-sensitive complex tivates tuberin (TSC2), a	survival factors to t ctivated by phospho psphorylation withir phosphorylation of <i>i</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 su enting GSK-3 β -med rely regulating the c lays a critical role in containing raptor ("	function in a lipid binding and 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 Ref	ferences	1. Franke, T.F. et al. (19 2. Burgering, B.M. and 3. Franke, T.F. et al. (19 4. Alessi, D.R. et al. (19 5. Sarbassov, D.D. et a 6. Jacinto, E. et al. (200 7. Cardone, M.H. et al. 8. Brunet, A. et al. (199 9. Zimmermann, S. an	 (Cell 88, 435-7. (Coffer, P.J. (1995) <i>N</i> (2005) <i>Science</i> 30 (2005) <i>Science</i> 30 (2005) <i>Science</i> 30 (2005) <i>Science</i> 282 (2005) <i>Science</i> 282 (2007) <i>Science</i> 282 (2008) <i>Science</i> 282 (2009) <i>Cell</i> 96, 857-68. (2001) <i>FEBS Lett</i> 492 (2001) <i>FEBS Lett</i> 492 (2001) <i>FEBS Lett</i> 492 (2001) <i>J Biol Chem</i> 26 (2001) <i>J Biol Chem</i> 27 (2001) <i>J At Cell Biol</i> 3, (2005) <i>Nat Cell Biol</i> 4, 64 	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. 5-9. 4499-511. 5, 39223-30. 245-52. Pt 2, 427-31. 48-57.	1240-5.	

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