#8018 store at -20C

Akt3 (L47B1) Mouse mAb	T C	ell Signaling
	Orders:	877-616-CELL (2355) orders@cellsignal.com
	Support:	877-678-TECH (8324)
	Web:	info@cellsignal.com cellsignal.com
	3 Trask Lane   Danvers   Mas	sachusetts   01923   USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	<b>Reactivity:</b> H M R Hm	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 60	Source/Isotype: Mouse IgG1	UniProt ID: #Q9Y243	Entrez-Gene Id: 10000	
Product Usage Information		<b>Application</b> Western Blotting			Dilution 1:1000		
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 Akt3 (L47B1)		Akt3 (L47B1) Mouse m	ise mAb recognizes endogenous levels of total Akt3 protein.				
Source / Purifica	ation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg116 of human Akt3 protein.					
Background		This protein kinase is a wortmannin-sensitive activation loop phosph terminus at Ser473. Th been identified as man rictor and Sin1 (5,6). A inactivation of several caspase-9. PTEN phosp LY294002 is a specific glycogen synthesis the play a role in insulin st glycogen synthesis, Al- phosphorylation and o kinase inhibitors p27 H directly phosphorylation	activated by insulin pathway involving norylation at Thr308 me previously elusive mmalian target of r kt promotes cell sui targets, including E phatase is a major r PI3 kinase inhibitor rough phosphorylat imulation 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 ( e transport (12). In addi cycle regulation by prev n D1 (14) and by negativa faf1/Cip1 (16). Akt also p nycin-sensitive complex tivates tuberin (TSC2), a	I survival factors to ctivated by phospho posphorylation within phosphorylation of apamycin-insensitiv tosis through phos ription factors (8), c- e PI3K/Akt signaling Akt function is the GSK-3 $\alpha$ and $\beta$ (12,13 tion to its role in su enting GSK-3 $\beta$ -mec vely regulating the o lays a critical role in containing raptor (	function in a blipid binding and n the carboxy Akt at Ser473 has re complex with phorylation and Raf (9), and g pathway (10). regulation of 3). Akt may also invival and diated cyclin-dependent n 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 10. Cantley, L.C. and N 11. Vlahos, C.J. et al. (1 12. Hajduch, E. et al. (2 13. Cross, D.A. et al. (1 14. Diehl, J.A. et al. (19 15. Gesbert, F. et al. (2 16. Zhou, B.P. et al. (20 17. Navé, B.T. et al. (200 19. Manning, B.D. et a	<ul> <li>Coffer, P.J. (1995) N</li> <li>(1995) Cell 81, 727-36.</li> <li>(96) EMBO J 15, 654</li> <li>(2005) Science 302</li> <li>(1998) Science 282</li> <li>(1998) For 286</li> <li>(1999) Socience 282</li> <li>(1999) Biochem 27</li> <li>(1990) Nat Cell Biol 3,</li> <li>(1990) Biochem J 344 F</li> <li>(2) Nat Cell Biol 4, 64</li> </ul>	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. 1499-511. 5, 39223-30. 245-52. Pt 2, 427-31. 18-57.	1240-5.		

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 nonfat dry milk, 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 Hm: Hamster
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.
	All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.
Limited Uses	Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.
	Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purpose, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.