

Phospho-Akt (Thr308) (D25E6) XP[®] Rabbit mAb (PE Conjugate)



Orders:	877-616-CELL (2355) orders@cellsignal.com
Support:	877-678-TECH (8324)
Web:	info@cellsignal.com cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: FC-FP	Reactivity: H M R Mk	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P31751, #Q9Y243, #P31749	Entrez-Gene Id: 208, 10000, 207
Product Usage Information		Application Flow Cytometry (Fixed/Per	meabilized)		Dilution 1:50
Storage		Supplied in PBS (pH 7.2), le antibodies. Protect from li		azide and 2 mg/ml BSA.	Store at 4°C. Do not aliquot the
Specificity/Sensit	ivity		orylated at Thr308. Th	nis antibody also recogni	s endogenous levels of Akt1 zes endogenous levels of Akt2 ylated at Thr305.
Source / Purificat	ion	Monoclonal antibody is pr corresponding to residues			ic phosphopeptide
Description		This Cell Signaling Techno direct flow cytometry anal cross-reactivity as the unc	ysis in mouse cells. Th	e antibody is expected to	PE) and tested in-house for o exhibit the same species Rabbit mAb #13038.
Background		This protein kinase is activ wortmannin-sensitive path activation loop phosphory terminus at Ser473. The pr been identified as mamma rictor and Sin1 (5,6). Akt pr inactivation of several targ caspase-9. PTEN phosphat LY294002 is a specific PI3 I glycogen synthesis throug play a role in insulin stimu glycogen synthesis, Akt is phosphorylation and degr kinase inhibitors p27 Kip1 directly phosphorylating n	ated by insulin and va hway involving PI3 kin lation at Thr308 by PE reviously elusive PDK2 alian target of rapamy romotes cell survival k yets, including Bad (7), case is a major negativ kinase inhibitor (11). A h phosphorylation an lation of glucose trans involved in cell cycle r adation of cyclin D1 (1 (15) and p21 Waf1/Cip nTOR in a rapamycin-s	arious growth and surviva ase (2,3). Akt is activated DK1 (4) and by phosphory responsible for phosphory responsible for phosphory of (mTOR) in a rapamyco by inhibiting apoptosis the forkhead transcription for e regulator of the PI3K// mother essential Akt fun d inactivation of GSK-30 sport (12). In addition to egulation by preventing (4) and by negatively reg (14). Akt also plays a c censitive complex contair	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 β (12,13). Akt may also its role in survival and GSK-3 β -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 Cof 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. (1998) 8. Brunet, A. et al. (1999) <i>C</i> 9. Zimmermann, S. and Me 10. Cantley, L.C. and Neel, 11. Vlahos, C.J. et al. (1994) 12. Hajduch, E. et al. (2001) 13. Cross, D.A. et al. (1995) 14. Diehl, J.A. et al. (1998) 15. Gesbert, F. et al. (2001) 16. Zhou, B.P. et al. (2001) 17. Navé, B.T. et al. (2002) <i>N</i>	fer, P.J. (1995) Nature 5 Cell 81, 727-36. EMBO J 15, 6541-51. 305) Science 307, 1098 Science 282, 1318- Cell 96, 857-68. belling, K. (1999) Scier B.G. (1999) Proc Natl / J Biol Chem 269, 524 J FEBS Lett 492, 199-2 Nature 378, 785-9. Genes Dev 12, 3499-5 J Biol Chem 275, 3922 Nat Cell Biol 3, 245-52 Biochem J 344 Pt 2, 42	2-101. 21. <i>ace</i> 286, 1741-4. <i>Acad Sci USA</i> 96, 4240-5. 1-8. 03. 11. 23-30.	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).	
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)	
Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey	
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. XP is a registered 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.	