3248

Phospho-CDC37 (Ser13) (D8P8F) Rabbit



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Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 50	Source/Isotype: Rabbit IgG	UniProt ID: #Q16543	Entrez-Gene Id: 11140		
Product Usage Information		Application 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 thar 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				ol and less than		
Specificity/Sensitivity		Phospho-CDC37 (Ser13) (D8P8F) Rabbit mAb recognizes endogenous levels of CDC37 protein only when phosphorylated at Ser13.						
Source / Purification Monoclonal antibody is produced by immunizing animals corresponding to residues surrounding Ser13 of human (nunizing animals with a s er13 of human CDC37 p	synthetic phosphop protein.	eptide		
Background		CDC37 is an important component of the HSP90 chaperone complex (1,2). It was initially identified for its involvement in cell-cycle progression and was later found to have a much broader role as a chaperone for a wide variety of kinases and other proteins (1-3). CDC37 protein has an amino-terminal kinase binding domain followed by a central HSP90 binding domain. It recruits and stabilizes kinases in the HSP90 complex by protecting the newly synthesized kinase peptide chain from degradation and promoting the next step of protein maturation (4,5). CDC37 also suppresses the ATPase activity of HSP90, thereby leading to conformational changes in the complex that preclude target kinase loading (6). CDC37 has been proposed as a therapeutic target because of its important role in multiple kinase pathways involved in proliferation and cancer cell survival, including Raf, Akt, Src, and ErbB2 pathways (7,8). CDC37 is phosphorylated by CKII at its carboxy-terminal Ser13 residue; this phosphorylation is required for its interaction with HSP90 and target protein stabilization function (9,10).						
Background R	eferences	 Karnitz, L.M. and Felts, S.J. (2007) <i>Sci STKE</i> 2007, pe22. Caplan, A.J. et al. (2007) <i>Trends Cell Biol</i> 17, 87-92. Caplan, A.J. et al. (2007) <i>Cell Cycle</i> 6, 3145-7. Mandal, A.K. et al. (2007) <i>J Cell Biol</i> 176, 319-28. Lee, P. et al. (2002) <i>J Cell Biol</i> 159, 1051-9. Siligardi, G. et al. (2002) <i>J Biol Chem</i> 277, 20151-9. Kimura, Y. et al. (2008) <i>Nat Rev Cancer</i> 8, 491-5. Shao, J. et al. (2003) <i>J Biol Chem</i> 278, 38117-20. Miyata, Y. and Nishida, E. (2004) <i>Mol Cell Biol</i> 24, 4065-74. 						
Species Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot E	Western Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				ר 5% w/v BSA, 1X			
Applications K	oplications Key W: Western Blotting							
Cross-Reactivi	ty Key	H: Human M: Mouse R: Rat						
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