Phospho-CDC37 (Ser13) Antibody



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Applications: W, IP	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 50	Source/Isotype: Rabbit	UniProt ID: #Q16543	Entrez-Gene Id: 11140	
Product Usage Information	•	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity/Sen	sitivity	Phospho-CDC37 (Ser13) Antibody recognizes endogenous levels of CDC37 protein only when phosphorylated at Ser13.					
Species predic based on 100% homology	ted to react sequence	Mouse, Rat					
Source / Purifi	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser13 of human CDC37 protein. Antibodies are purified by protein A and peptide affinity chromatography.					
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 References 1. Karnitz, L.M. and Felts, S.J. (2007) Sci STKE 2007, pe22. 2. Caplan, A.J. et al. (2007) Trends Cell Biol 17, 87-92. 3. Caplan, A.J. et al. (2007) Cell Cycle 6, 3145-7. 4. Mandal, A.K. et al. (2007) J Cell Biol 176, 319-28. 5. Lee, P. et al. (2002) J Cell Biol 159, 1051-9. 6. Siligardi, G. et al. (2002) J Biol Chem 277, 20151-9. 7. Kimura, Y. et al. (1997) Genes Dev 11, 1775-85. 8. Gray, P.J. et al. (2003) J Biol Chem 278, 38117-20. 10. Miyata, Y. and Nishida, E. (2004) Mol Cell Biol 24, 4065-74.							
Species Reacti	vity	Species reactivity is det	ermined by testin	g in at least one approve	d application (e.g.,	western blot).	
Western Blot E	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 K	ey	W: Western Blotting IP: Immunoprecipitation					
Cross-Reactivi	ty Key	H: Human Mk: Monkey					
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