Revision 3			
Phospho-HSP27 (Ser82) Antibody	Cell Signaling TECHNOLOGY®		
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com	
	Support:	877-678-TECH (8324)	
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Applications: W, IHC-P, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 27	Source/Isotype: Rabbit	UniProt ID: #P04792	Entrez-Gene Id: 3315		
Product Usage Information	2	Application Western Blotting Immunohistochemis Immunofluorescence	, , , , , , , , , , , , , , , , , , ,	iistry)		Dilution 1:1000 1:50 1:25		
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/Ser	sitivity	Phospho-HSP27 (Ser82) Antibody detects endogenous HSP27 only when phosphorylated at serine 82. The antibody does not recognize other heat shock proteins.						
Source / Purifi	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic phospho-peptide corresponding to residues surrounding Ser82 of human HSP27. Antibodies are purified by protein A and peptide affinity chromatography.						
Background		Heat shock protein (HSP) 27 is one of the small HSPs that are constitutively expressed at different levels in various cell types and tissues. Like other small HSPs, HSP27 is regulated at both the transcriptional and posttranslational levels (1). In response to stress, the HSP27 expression increases several-fold to confer cellular resistance to the adverse environmental change. HSP27 is phosphorylated at Ser15, Ser78, and Ser82 by MAPKAPK-2 as a result of the activation of the p38 MAP kinase pathway (2,3). Phosphorylation of HSP27 causes a change in its tertiary structure, which shifts from large homotypic multimers to dimers and monomers (4). It has been shown that phosphorylation and increased concentration of HSP27 modulates actin polymerization and reorganization (5,6).						
Background R	eferences	1. Stetler, R.A. et al. (2 2. Landry, J. et al. (199 3. Rouse, J. et al. (199 4. Rogalla, T. et al. (19 5. Lavoie, J.N. et al. (1 6. Rousseau, S. et al.	92) J Biol Chem 267, 4) Cell 78, 1027-37. 999) J Biol Chem 274 993) J Biol Chem 26	794-803. , 18947-56. 3, 24210-4.				
Species Reacti	vity	Species reactivity is d	etermined by testin	g in at least one approve	ed 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 I (Immunocytochemist		ochemistry (Paraffin) IF-I	C: Immunofluores	cence		
Cross-Reactivi	ty Key	H: Human M: Mouse	R: Rat Mk: Monkey					
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