#2401 Store at -20C

Phospho-HSP27 (Ser82) Antibody



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Applications: WB, IHC-P, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 27	Source: Rabbit	UniProt ID: #P04792	Entrez-Gene Id: 3315	
Product Usage Information	Ар	plication				Dilution	
	We	stern Blotting				1:1000	
	Imr	munohistochemistry	/ (Paraffin)			1:50	
	Imr	nunofluorescence ((Immunocytochemis	stry)		1:25	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sensit		Phospho-HSP27 (Ser82) Antibody detects endogenous HSP27 only when phosphorylated at serine 82. The antibody does not recognize other heat shock proteins.					
Source / Purification	corr	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	in va post cellu Sert of H and	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 Refer	1. Stetler, R.A. et al. (2009) <i>Curr Mol Med</i> 9, 863-72. 2. Landry, J. et al. (1992) <i>J Biol Chem</i> 267, 794-803. 3. Rouse, J. et al. (1994) <i>Cell</i> 78, 1027-37. 4. Rogalla, T. et al. (1999) <i>J Biol Chem</i> 274, 18947-56. 5. Lavoie, J.N. et al. (1993) <i>J Biol Chem</i> 268, 24210-4. 6. Rousseau, S. et al. (1997) <i>Oncogene</i> 15, 2169-77.						

Species Reactivity 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 BSA, 1X TBS,

Applications Key WB: Western Blotting IHC-P: Immunohistochemistry (Paraffin)

IF-IC: Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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