

HSP27 (D6W5V) Rabbit mAb



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Applications: W, IP, IF-IC, FC-FP	Reactivity:	Sensitivity: Endogenous	MW (kDa): 27	Source/Isotype: Rabbit IgG	UniProt ID: #P04792	Entrez-Gene Id: 3315
Product Usage Information		Application Western Blotting			Dilu 1:10	
		Immunoprecipitation			1:50	
		Immunofluorescence (Immunocytochemistry)			1:400 - 1:1600	
		Flow Cytometry (Fixed/Permeabilized)			1:100 - 1:400	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
		For a carrier free (BSA	and azide free) ver	sion of this product see	product #65072.	
Specificity/Sensitivity		HSP27 (D6W5V) Rabbit mAb recognizes endogenous levels of total HSP27 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro168 of human HSP27 protein.				
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 References		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 Reactiv	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed 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, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)				
Cross-Reactivity Key		H: Human				
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