Phospho-HSP27 (Ser82) (D1H2F6) XP[®] Rabbit mAb (Alexa Fluor[®] 488 Conjugate)



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Applications: IF-IC, FC-FP	Reactivity: H M	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P04792	Entrez-Gene Id: 3315
Product Usage Information		Application Immunofluorescence (Ir Flow Cytometry (Fixed/P	-		Dilution 1:50 1:50
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4° C. Do not aliquot the antibody. Protect from light. Do not freeze.			
Specificity/Sensitivity		Phospho-HSP27 (Ser82) (D1H2F6) XP [®] Rabbit mAb (Alexa Fluor [®] 488 Conjugate) recognizes endogenous levels of HSP27 protein only when phosphorylated at Ser82.			
Species predicte based on 100% homology	ed to react sequence	Rat, Hamster, Bovine, Do	g, Horse		
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser82 of human HSP27 protein.			
Description	This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 488 fluorescent dye and tested in-house for direct flow cytometry and immunofluorescent analysis in human cells. The antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-HSP27 (Ser82) (D1H2F6) XP [®] Rabbit mAb #9709.				
Background	Heat shock protein (HSP) 27 is one of the small HSPs that are constitutively expressed at differe in various cell types and tissues. Like other small HSPs, HSP27 is regulated at both the transcrip and posttranslational levels (1). In response to stress, the HSP27 expression increases several-f confer cellular resistance to the adverse environmental change. HSP27 is phosphorylated at Se Ser78, and Ser82 by MAPKAPK-2 as a result of the activation of the p38 MAP kinase pathway (2, Phosphorylation of HSP27 causes a change in its tertiary structure, which shifts from large hon 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		 Stetler, R.A. et al. (2009) Curr Mol Med 9, 863-72. Landry, J. et al. (1992) J Biol Chem 267, 794-803. Rouse, J. et al. (1994) Cell 78, 1027-37. Rogalla, T. et al. (1999) J Biol Chem 274, 18947-56. Lavoie, J.N. et al. (1993) J Biol Chem 268, 24210-4. Rousseau, S. et al. (1997) Oncogene 15, 2169-77. 			
Species Reactiv	itv	Species reactivity is dete	rmined by testing in at le	ast one approved an	plication (e.g., western blot).

Species Reactivity

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Applications Key

IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key H: Human M: Mouse

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