HSP27 (G31) Mouse mAb



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Applications:Reactivity:W, IHC-P, IF-ICH Mk	Sensitivity: Endogenous	MW (kDa): 27	Source/Isotype: Mouse IgG1	UniProt ID: #P04792	Entrez-Gene Id 3315	
Product Usage	Application Dilution					
Information	Western Blotting			1:1000		
	_	Immunohistochemistry (Paraffin)			1:100 - 1:400	
	Immunofluorescence (Immunocytochemistry)			1:400 - 1:1600		
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) version of this product see product #47289.					
Specificity/Sensitivity	HSP27 (G31) Mouse mAb detects endogenous levels of total HSP27 protein. The antibody does not cross-react with other heat shock proteins.					
	Non-specific staining was observed in red blood cells of few tissues by immunohistochemistry.					
Source / Purification	Monoclonal antibody is produced by immunizing animals with full length HSP27 protein.					
Background	in various cell types a and posttranslationa confer cellular resista Ser78, and Ser82 by l Phosphorylation of H multimers to dimers	and tissues. Like oth I levels (1). In respor ance to the adverse MAPKAPK-2 as a resi ISP27 causes a chan and monomers (4).	small HSPs that are coner small HSPs, HSP27 is use to stress, the HSP27 environmental change. I lit of the activation of the ge in its tertiary structured thas been shown that polymerization and reor	regulated at both t expression increas HSP27 is phosphor te p38 MAP kinase e, which shifts fror phosphorylation an	he transcriptional es several-fold to ylated at Ser15, oathway (2,3). n large homotypic	
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 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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.					
Applications Key		W: Western Blotting IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry)				
Cross-Reactivity Key	H: Human Mk: Monkey					
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