36 Store at -20C

Phospho-HSP27 (Ser82) Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IHC-P, IF-IC, FC- FP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 27	Source: Rabbit	UniProt ID: #P04792	Entrez-Gene Id: 3315	
Product Usage Information	Aŗ	plication				Dilution	
	We	estern Blotting				1:1000	
	Im	munohistochemistry	(Paraffin)			1:100	
	Im	munofluorescence ((Immunocytochemis	try)		1:400	
	Flo	ow Cytometry (Fixed	I/Permeabilized)			1:50	
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 / Sensi		Phospho-HSP27 (Ser82) Antibody II detects endogenous HSP27 only when phosphorylated at Ser82. The antibody does not recognize other heat shock proteins.					
Source / Purificati	to r	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser82 of human HSP27. Antibodies are purified by protein A and peptide affinity chromatography.					
Heat shock protein (HSP) 27 is one of the small HSPs that are constitutively expressed at differ in various cell types and tissues. Like other small HSPs, HSP27 is regulated at both the transcrip posttranslational levels (1). In response to stress, the HSP27 expression increases several-fold cellular resistance to the adverse environmental change. HSP27 is phosphorylated at Ser15, Ser82 by MAPKAPK-2 as a result of the activation of the p38 MAP kinase pathway (2,3). Phosp of HSP27 causes a change in its tertiary structure, which shifts from large homotypic multimers and monomers (4). It has been shown that phosphorylation and increased concentration of HSP modulates actin polymerization and reorganization (5,6).						he transcriptional and everal-fold to confer : Ser15, Ser78, and :,3). Phosphorylation multimers to dimers	
Background Refe	2. L 3. F 4. F 5. L	 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 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, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting **IHC-P:** Immunohistochemistry (Paraffin)

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

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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1/1/24, 8:11 AM **Limited Uses**

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