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Phospho-HSPB1-S82

Reactivity: Human Rat

Tested applications:WB IHC IF

Recommended Dilution:WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:50 - 1:200

Observed MW: Refer to Figures

Immunogen:

A phospho specific peptide corresponding to residues surrounding S82 of human HSPB1

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

j

Synonym:

CMT2F; HMN2B; HSP27; HSP28; Hsp25; SRP27; HS.76067; DKFZp586P1322

Catalog #:AP0041

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID:3315

Isotype: IgG

Swiss Prot:P04792

Purity: Affinity purification

For research use only.

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).

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