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HSPB1

Reactivity: Human

Tested applications:WB IHC

Recommended Dilution:WB 1:500 - 1:1000 IHC 1:50 - 1:100

Calculated MW:23kDa

Observed MW: Refer to Figures

Immunogen:

A synthetic peptide of human HSPB1

Storage Buffer:

Store at 4. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

j

Synonym:

HSPB1;CMT2F;DKFZp586P1322;HMN2B;HS.76067;HSP27;HSP28;Hsp25;SRP27

Catalog #:A0090

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 heat shock proteins, HSPB1 is regulated at both the transcriptional and posttranslational levels (1). In response to stress, the expression level of HSPB1 increases several-fold to confer cellular resistance to the adverse environmental change. HSPB1 is phosphorylated at Ser15, Ser78 and Ser82 by MAPKAP kinase 2 as a result of the activation of the p38 MAP kinase pathway (2,3). Phosphorylation of HSPB1 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 HSPB1 modulates actin polymerization and reorganization (5,6).

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