

Product datasheet for **TA332377**

HSP27 (HSPB1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB 1:500 - 1:2000
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant protein of human HSPB1
Formulation:	Store at -20°C (regular) and -80°C (long term). Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	205
Gene Name:	heat shock protein family B (small) member 1
Database Link:	NP_001531 Entrez Gene 15507 MouseEntrez Gene 24471 RatEntrez Gene 3315 Human P04792



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Background:

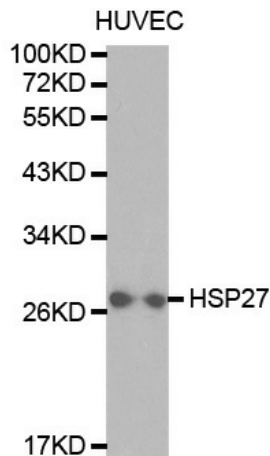
Heat shock protein (HSP) 27 is one of the small HSPs that are constitutively expressed at different levels in various cell types and tissues. Like other small heat shock proteins, HSPB1 is regulated at both the transcriptional and posttranslational levels (1). In response to stress, the expression level 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).

Synonyms:

CMT2F; HEL-S-102; HMN2B; HS.76067; Hsp25; HSP27; HSP28; SRP27

Protein Pathways:

MAPK signaling pathway, VEGF signaling pathway

Product images:

Western blot analysis of extracts of HUVEC cells, using HSPB1 antibody.