

Product Datasheet

Phospho-Hsp27 (S82) Antibody

Catalog No: CY5701

Reactivity: Human Mouse Rat

Isotype: Rabbit IgG

Applications: WB IP



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Information

UniProt ID: P04792

All Names: 28 kDa heat shock protein; Estrogen-regulated 24 kDa protein; Growth-related 25 kDa protein; Heat shock 27 kDa protein; HSP 27; HSP25; HSPB1; P25; SRP27; Stress-responsive protein 27;

Form: Liquid

Storage instructions: Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Storage buffer: pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Purity: Affinity-chromatography

Immunogen: A synthesized peptide

Molecular Wt.: 27 kDa

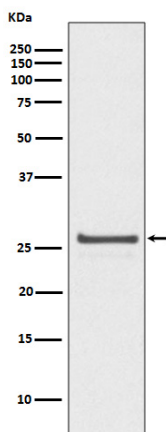
Application

WB: 1:500~1:1000

IP: 1:50

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. 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. Phosphorylation of HSP27 causes a change in its tertiary structure, which shifts from large homotypic multimers to dimers and monomers. It has been shown that phosphorylation and increased concentration of HSP27 modulates actin polymerization and reorganization.



Western blot analysis of Phospho-Hsp27 (S82) expression in HeLa cell lysate treated with heat shock.

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