

Product Name: Hsp27 (1A15) Rabbit Monoclonal Antibody
Catalog #: AMRe12241

Summary

| | |
|------------------------|---|
| Production Name | Hsp27 (1A15) Rabbit Monoclonal Antibody |
| Description | Rabbit Monoclonal Antibody |
| Host | Rabbit |
| Application | WB |
| Reactivity | Human,Mouse,Rat |

Performance

| | |
|---------------------|--|
| Conjugation | Unconjugated |
| Modification | Unmodified |
| Isotype | IgG |
| Clonality | Monoclonal |
| Form | Liquid |
| Storage | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |
| Buffer | Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% BSA. |
| Purification | Affinity purification |

Immunogen

| | |
|--------------------------|---|
| Gene Name | HSPB1 |
| Alternative 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; |
| Gene ID | 3315.0 |
| SwissProt ID | P04792.A synthetic peptide of human Hsp27 |

Application

| | |
|-------------------------|-------------------|
| Dilution Ratio | WB: 1:1000-1:5000 |
| Molecular Weight | 23kDa |

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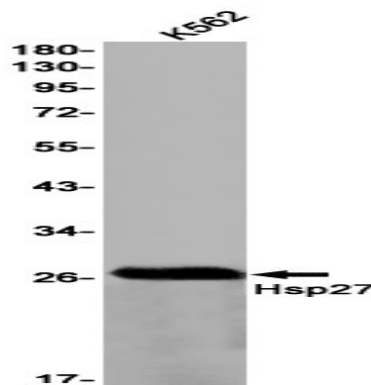


Background

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 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. Small heat shock protein which functions as a molecular chaperone probably maintaining denatured proteins in a folding-competent state (PubMed: [10383393](http://www.uniprot.org/citations/10383393), PubMed: [20178975](http://www.uniprot.org/citations/20178975)). Plays a role in stress resistance and actin organization (PubMed: [19166925](http://www.uniprot.org/citations/19166925)). Through its molecular chaperone activity may regulate numerous biological processes including the phosphorylation and the axonal transport of neurofilament proteins (PubMed: [23728742](http://www.uniprot.org/citations/23728742)).

Research Area

Image Data



Western blot detection of Hsp27 in K562 cell lysates using Hsp27 antibody(1:1000 diluted).

Note

For research use only.