## Phospho-Hsp27(S82)

**Cat#: ET1611-16**

<table>
<thead>
<tr>
<th>Product Type:</th>
<th>Recombinant rabbit monoclonal IgG, primary antibodies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Species reactivity:</td>
<td>Human, Mouse, Rat</td>
</tr>
<tr>
<td>Applications:</td>
<td>WB, IP</td>
</tr>
<tr>
<td>Molecular Wt.:</td>
<td>27 kDa</td>
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</tbody>
</table>

### Description:
HSP 27 is a constitutively expressed cytoplasmic protein that co-localizes to the nucleus upon stress-induced insult. Heat shock, cytokines and hormones are among the factors that stimulate the synthesis of HSP 27. The intracellular concentration of the mammalian heat shock protein, HSP 27, increases several-fold after heat shock and other metabolic stresses, and is closely associated with the acquisition of thermotolerance. MAP kinase-activated protein kinase-2 phosphorylates HSP 27 on Serine residues Ser 15, Ser 78 and Ser 82, which are phosphorylated in vivo in response to growth factors and heat shock. Ser 15, Ser 78 and Ser 82 occur in the sequence motif RXXS, which is recognized by ribosomal protein S6 kinase II.

### Immunogen:
Synthetic phospho-peptide corresponding to residues surrounding Ser82 of human Hsp27.

### Positive control:
Human skeletal muscle tissue.

### Subcellular location:
Cytoplasm, Nucleus.

### Database links:
SwissProt: P04792 (Human) P14602 (Mouse) P42930 (Rat)

### Recommended Dilutions:
**WB:** 1:1,000-1:2,000

### Storage Buffer:
1xTBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.

### Storage Instruction:
Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

### Purity:
ProA affinity purified.

### Background References