

## Basic Information

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|---------------------------|--|------------|
| <b>Product Name</b>       | Anti-HSP27/HSPB1 Antibody (Clone#IAP-9)  |            |
| <b>Gene Name</b>          | HSPB1  |            |
| <b>Source</b>             | Mouse  |            |
| <b>Clonality</b>          | Monoclonal   |            |
| <b>Isotype</b>            | IgG1   |            |
| <b>Species Reactivity</b> | human, mouse, rat, rabbit  |            |
| <b>Tested Application</b> | WB, IHC, ICC/IF  |            |
| <b>Contents</b>           | 200 ug/ml antibody with PBS , 0.02% NaN <sub>3</sub> , 1 mg BSA and 50% glycerol.  |            |
| <b>Immunogen</b>          | Partially purified inhibitor of actin polymerization(IAP) protein from turkey gizzard smooth muscle.   |            |
| <b>Concentration</b>      | 200 ug/ml  |            |
| <b>Purification</b>       | Ascites  |            |
| <b>Observed MW</b>        | 23 kDa   |            |
| <b>Dilution Ratios</b>    | Western blot (WB):   | 1:500-2000 |
|                           | Immunohistochemistry (IHC):  | 1:50-400   |
|                           | Immunocytochemistry/Immunofluorescence (ICC/IF):   | 1:50-400   |
|                           | (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user. |            |

## Storage

12 months from date of receipt, -20°C as supplied.

## Background Information

The heat-shock proteins(HSPs) belong to a larger group of polypeptides, the stress proteins, that are induced in various combinations in response to environmental challenges and developmental transitions. Heat-shock 27-kD protein also known as HSPB. Synthesis of the small(27-kD) HSP has been shown to be correlated with the acquisition of thermotolerance. HSP27 gene is mapped to 7q11.23. Mutant small heat-shock protein 27 causes axonal Charcot-Marie-Tooth disease and distal hereditary motor neuropathy. Heat shock protein 27 prevents cellular polyglutamine toxicity and suppresses the increase of reactive oxygen species caused by huntingtin.

Product datasheet

**Anti-HSP27/HSPB1 Antibody  
(Clone#IAP-9)**

**Catalog Number: BM1586**

**BOSTER**<sup>®</sup>

antibody and ELISA experts

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Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,  
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## Selected Validation Data