

Catalog # ALS15016

HSPB1 / HSP27 Antibody (aa45-94) Rabbit Polyclonal Antibody

## Specification

## HSPB1 / HSP27 Antibody (aa45-94) - Product Information

Application Primary Accession Reactivity Host Clonality Calculated MW WB, IHC <u>P04792</u> Human Rabbit Polyclonal 23kDa KDa

### HSPB1 / HSP27 Antibody (aa45-94) - Additional Information

Gene ID 3315

**Other Names** Heat shock protein beta-1, HspB1, 28 kDa heat shock protein, Estrogen-regulated 24 kDa protein, Heat shock 27 kDa protein, HSP 27, Stress-responsive protein 27, SRP27, HSPB1, HSP27, HSP28

**Target/Specificity** HSP27 (Ab-78) Antibody detects endogenous levels of total HSP27 protein.

**Reconstitution & Storage** Store at -20°C for up to one year.

**Precautions** HSPB1 / HSP27 Antibody (aa45-94) is for research use only and not for use in diagnostic or therapeutic procedures.

### HSPB1 / HSP27 Antibody (aa45-94) - Protein Information

Name HSPB1

Synonyms HSP27, HSP28

Function

Small heat shock protein which functions as a molecular chaperone probably maintaining denatured proteins in a folding- competent state (PubMed:<a

href="http://www.uniprot.org/citations/10383393" target="\_blank">10383393</a>, PubMed:<a href="http://www.uniprot.org/citations/20178975" target="\_blank">20178975</a>). Plays a role in stress resistance and actin organization (PubMed:<a

href="http://www.uniprot.org/citations/19166925" target="\_blank">19166925</a>). Through its molecular chaperone activity may regulate numerous biological processes including the phosphorylation and the axonal transport of neurofilament proteins (PubMed:<a href="http://www.uniprot.org/citations/23728742" target="\_blank">23728742</a>).



## **Cellular Location**

Cytoplasm. Nucleus Cytoplasm, cytoskeleton, spindle Note=Cytoplasmic in interphase cells. Colocalizes with mitotic spindles in mitotic cells. Translocates to the nucleus during heat shock and resides in sub-nuclear structures known as SC35 speckles or nuclear splicing speckles.

### **Tissue Location**

Detected in all tissues tested: skeletal muscle, heart, aorta, large intestine, small intestine, stomach, esophagus, bladder, adrenal gland, thyroid, pancreas, testis, adipose tissue, kidney, liver, spleen, cerebral cortex, blood serum and cerebrospinal fluid. Highest levels are found in the heart and in tissues composed of striated and smooth muscle.

Volume 50 μl

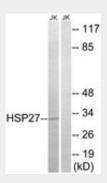
# HSPB1 / HSP27 Antibody (aa45-94) - Protocols

Provided below are standard protocols that you may find useful for product applications.

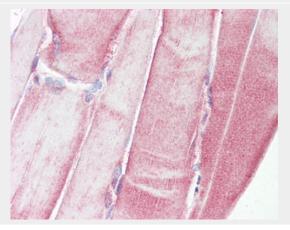
### <u>Western Blot</u>

- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

HSPB1 / HSP27 Antibody (aa45-94) - Images



Western blot of extracts from Jurkat cells, treated with Ca2+, using HSP27 (Ab-78) Antibody.





Anti-HSPB1 antibody IHC of human skeletal muscle. HSPB1 / HSP27 Antibody (aa45-94) - Background

Involved in stress resistance and actin organization.

## HSPB1 / HSP27 Antibody (aa45-94) - References

Hickey E., et al.Nucleic Acids Res. 14:4127-4145(1986). Carper S.W., et al.Nucleic Acids Res. 18:6457-6457(1990). Hino M., et al.Biochem. Biophys. Res. Commun. 271:164-169(2000). Briolay J., et al.Submitted (JUN-1993) to the EMBL/GenBank/DDBJ databases. Yu W., et al.Genome Res. 7:353-358(1997).