

Hsp27 Antibody
Rabbit mAb
Catalog # AP90933

Specification

Hsp27 Antibody - Product Information

Application	WB, IHC, FC, ICC, IP
Primary Accession	P04792
Reactivity	Rat
Clonality	Monoclonal

Other 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;

Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	22783 Da

Hsp27 Antibody - Additional Information

Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human Hsp27
Description	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.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Hsp27 Antibody - 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: [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)).

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

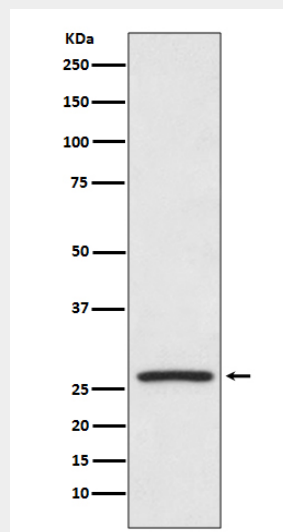
Detected in all tissues tested: skeletal muscle, heart, aorta, large intestine, small intestine, stomach, esophagus, bladder, adrenal gland, thyroid, pancreas, testis, adipose tissue, kidney, liver, spleen, cerebral cortex, blood serum and cerebrospinal fluid. Highest levels are found in the heart and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

Hsp27 Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Hsp27 Antibody - Images



Western blot analysis of Hsp27 expression in HeLa cell lysate.