

HSP27 (Heat Shock Protein 27) Antibody - With BSA and Azide
Mouse Monoclonal Antibody [Clone SPM252]
Catalog # AH10484

Specification

HSP27 (Heat Shock Protein 27) Antibody - With BSA and Azide - Product Information

Application	,1,14,3,4,
Primary Accession	P04792
Other Accession	3315 , 520973
Reactivity	Human, Mouse, Rat, Chicken, Chimpanzee, Sheep
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG1, kappa
Calculated MW	27kDa KDa

HSP27 (Heat Shock Protein 27) Antibody - With BSA and Azide - 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

Format

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA at 1.0mg/ml.

Storage

Store at 2 to 8°C. Antibody is stable for 24 months.

Precautions

HSP27 (Heat Shock Protein 27) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

HSP27 (Heat Shock Protein 27) Antibody - With BSA and Azide - 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).

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

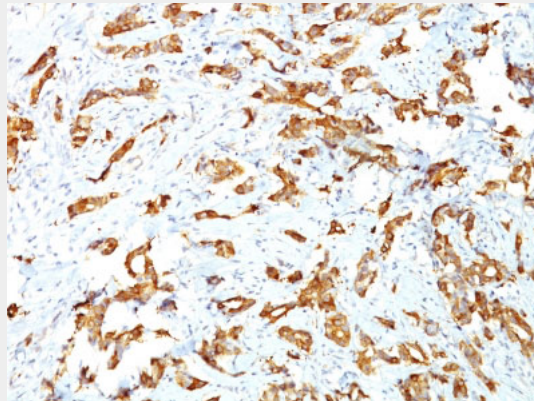
Detected in all tissues tested: skeletal muscle, heart, aorta, large intestine, small intestine, stomach, esophagus, bladder, adrenal gland, thyroid, pancreas, testis, adipose tissue, kidney, liver, spleen, cerebral cortex, blood serum and cerebrospinal fluid. Highest levels are found in the heart and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

HSP27 (Heat Shock Protein 27) Antibody - With BSA and Azide - Protocols

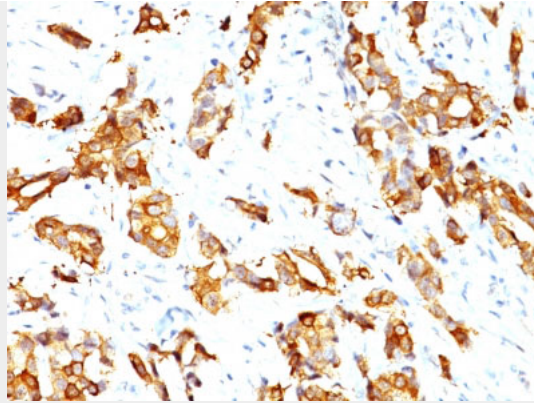
Provided below are standard protocols that you may find useful for product applications.

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

HSP27 (Heat Shock Protein 27) Antibody - With BSA and Azide - Images



Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with HSP27 Monoclonal Antibody (SPM252)



Formalin-fixed, paraffin-embedded human Breast Carcinoma stained with HSP27 Monoclonal Antibody (SPM252)

HSP27 (Heat Shock Protein 27) Antibody - With BSA and Azide - Background

It recognizes a 24-27kDa estrogen-regulated protein, identified as heat shock protein 27 (hsp27). Hsp27 was recently found to be identical to the estrogen-induced \diamond p29 \diamond and \diamond 24K \diamond protein. About 50% of breast carcinomas are positive for hsp27 especially those that are also positive for estrogen and/or progesterone receptor. HSP27 has also been implicated in drug resistance in cancer cells.

HSP27 (Heat Shock Protein 27) Antibody - With BSA and Azide - References

Edwards DP et. al. Biochem Biophys Research Commun, 93:804-812, 1980. | Ciocca DR et. al. Breast Cancer Research and Treatment, 20:33-42, 1991