10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

HSPB1 / HSP27 Antibody (aa1-205, clone 2A5)

Mouse Monoclonal Antibody
Catalog # ALS12548

Specification

HSPB1 / HSP27 Antibody (aa1-205, clone 2A5) - Product Information

Application	**IHC, WB**
Primary Accession	P04792
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**23kDa KDa**

HSPB1 / HSP27 Antibody (aa1-205, clone 2A5) - 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

Reconstitution & Storage
Long term: -20°C; Short term: +4°C; Avoid freeze-thaw cycles.

Precautions
HSPB1 / HSP27 Antibody (aa1-205, clone 2A5) is for research use only and not for use in diagnostic or therapeutic procedures.

HSPB1 / HSP27 Antibody (aa1-205, clone 2A5) - 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, PubMed:20178975). Plays a role in stress resistance and actin organization (PubMed: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.

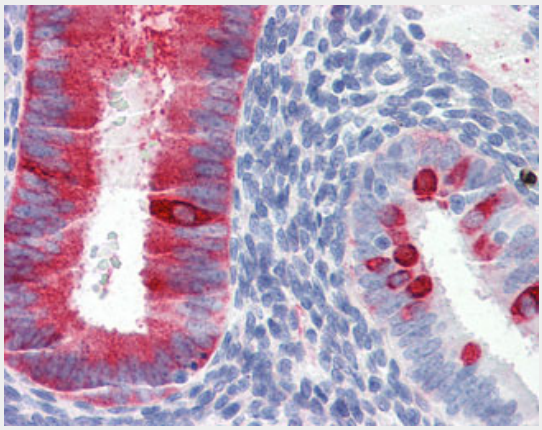
Tissue Location
Detected in all tissues tested: skeletal muscle, heart, aorta, large intestine, small intestine, stomach, esophagus, bladder, adrenal gland, thyroid, pancreas, testis, adipose tissue, kidney, liver, spleen, cerebral cortex, blood serum and cerebrospinal fluid. Highest levels are found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

HSPB1 / HSP27 Antibody (aa1-205, clone 2A5) - Protocols

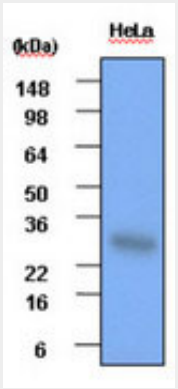
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

HSPB1 / HSP27 Antibody (aa1-205, clone 2A5) - Images



Anti-HSPB1 antibody IHC of human uterus.



Cell lysates of HeLa (each 30 ug) were resolved by SDS-PAGE, transferred to PVDF membrane and...

HSPB1 / HSP27 Antibody (aa1-205, clone 2A5) - Background

Involved in stress resistance and actin organization.

HSPB1 / HSP27 Antibody (aa1-205, clone 2A5) - 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).