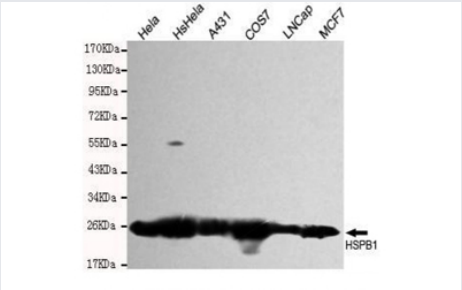
HSPB1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	HSPB1, Monoclonal Antibody
Full Product Name	Mouse monoclonal HSPB1 antibody
Product Gene Name	anti-HSPB1 antibody
Product Synonym Names	HSPB1 antibody
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	M80571
Host	Mouse
Form/Format	Supplied in buffer containing 0.1M Tris-Glycine (pH 7.4, 150mM NaCl) with 0.2% sodium azide, 0.1% BSA and 50% glycerol
Concentration	1 mg/ml (lot specific)
Specificity	HSPB1 antibody detects endogenous levels of HSPB1 and does not cross-react with related proteins
Preparation and Storage	Store at 4 degree C for short term storage. For long term storage, store at -20 degree C.
Molecular Weight	22,783 Da
OMIM	L39370 Genomic DNA
3D Structure	ModBase 3D Structure for P04792
Immunogen	HSPB1 antibody was raised in Rabbit using a purified recombinant human HSPB1 protein fragments expressed in Ecoli as the immunogen
Cross-Reactivity	Human, Monkey
Product Categories/Family for anti-HSPB1 antibody	Protein Modification & Stress Response
Applications Tested/Suitable for anti-HSPB1 antibody	Western Blot (WB), Immunocytochemistry (ICC)
Related Product Information for anti-HSPB1 antibody	MBS5306385 is an antibody targeting HSPB1. Also known as Mouse monoclonal HSPB1 antibody. Host: Mouse.
Other Notes	Small volumes of anti-HSPB1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-HSPB1 antibody
Western blot detection of HSPB1 in Hela, HsHela, A431, COS7, LNCAP&MCF7 cell lysates and using HSPB1 antibody (1:1000 diluted). Predicted band size: 23KDa Observed band size:27KDa.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HSPB1. It may not necessarily be applicable to this product.

NCBI GI #	49168466
NCBI GeneID	3315
NCBI Accession #	CAG38728.1
UniProt Primary Accession #	P04792
UniProt Secondary Accession #	Q6FI47; Q96C20; Q96EI7; Q9UC31; Q9UC34; Q9UC35; Q9UC36; B2R4N8
UniProt Related Accession #	P04792
NCBI Official Full Name	HSPB1
NCBI Official Synonym Full Names	heat shock protein family B (small) member 1
NCBI Official Symbol	HSPB1
NCBI Official Synonym Symbols	CMT2F; HMN2B; HSP27; HSP28; Hsp25; SRP27; HS.76067; HEL-S-102
UniProt Protein Name	Heat shock protein beta-1
UniProt Synonym Protein Names	28 kDa heat shock protein; Estrogen-regulated 24 kDa protein; Heat shock 27 kDa protein; HSP 27; Stress-responsive protein 27; SRP27
Protein Family	Heat shock protein
UniProt Gene Name	HSPB1
UniProt Synonym Gene Names	HSP27; HSP28; HspB1; HSP 27; SRP27
NCBI Protein Information	heat shock protein beta-1
NCBI Summary for HSPB1	The protein encoded by this gene is induced by environmental stress and developmental changes. The encoded protein is involved in stress resistance and actin organization and translocates from the cytoplasm to the nucleus upon stress induction. Defects in this gene are a cause of Charcot-Marie-Tooth disease type 2F (CMT2F) and distal hereditary motor neuropathy (dHMN). [provided by RefSeq, Oct 2008]

UniProt Comments for HSPB1	HSP27: a small heat shock protein that is regulated both transcriptionally and posttranslationally. Modulates actin polymerization and reorganization. Its expression level increases several-fold in response to stress and is phosphorylated by MAPKAP kinase 2. Cytoplasmic in interphase cells. Colocalizes with mitotic spindles in mitotic cells. Translocates to the nucleus during heat shock. Protein type: Chaperone; Heat shock protein; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 7q11.23 Cellular Component: cytoplasm; cytoskeleton; cytosol; extracellular matrix; extracellular space; focal adhesion; nucleus; proteasome complex Molecular Function: identical protein binding; protein binding; protein kinase binding; protein kinase C binding; protein kinase C inhibitor activity; ubiquitin binding Biological Process: cell motility; negative regulation of apoptosis; negative regulation of protein kinase activity; positive regulation of angiogenesis; positive regulation of blood vessel endothelial cell migration; positive regulation of interleukin-1 beta production; positive regulation of tumor necrosis factor biosynthetic process; regulation of I-kappaB kinase/NF-kappaB cascade; regulation of mRNA stability; regulation of protein amino acid phosphorylation; regulation of translational initiation; response to virus; retinal homeostasis; vascular endothelial growth factor receptor signaling pathway Disease: Charcot-marie-tooth Disease, Axonal, Type 2f; Neuronopathy, Distal Hereditary Motor, Type Iib
Research Articles on HSPB1	**1.** In this instance, the ATP5B/CALR/HSP90B1/HSPB1/HSPD1-signaling network was revealed as the predominant target which was associated with the majority of the observed protein-protein interactions. As a result, the identified targets may be useful in explaining the anticancer mechanisms of ursolic acid and as potential targets for colorectal cancer therapy.
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