

Rabbit anti-Human HSP27/HSPB1 Monoclonal Antibody | anti-HSPB1 antibody

HSP27/HSPB1 Rabbit mAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA282621	Rabbit	Human	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

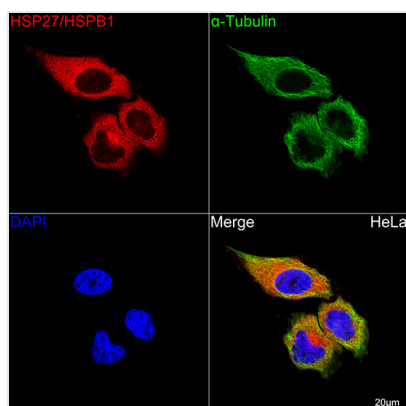
PRODUCT SYNONYMS

HSP27/HSPB1; Monoclonal Antibody; HSP27/HSPB1 Rabbit mAb; CMT2F; HMN2B; HSP27; HSP28; Hsp25; SRP27; HS.76067; HEL-S-102; anti-HSPB1 antibody

PRODUCT SPECIFICATIONS

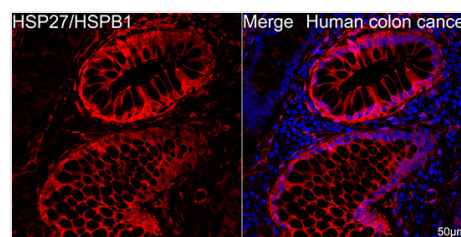
Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.
Sequence	DVNHFAPDEL TVKTKDGVVE ITGKHEERQD EHGYSRCFT RKYTLPPGVD PTQVSSSLSP EGTLTVEAPM PKLATQSNEI TIPVTFESRA QLGGPEAAKS DETAAK
Applicable Applications for anti-HSPB1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Cross Reactivity	Human, Mouse, Rat
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 100-205 of human HSP27/HSPB1 (P04792).
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



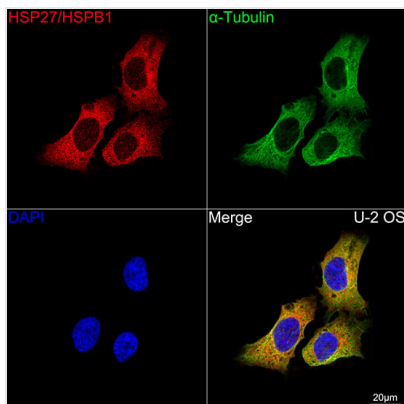
ICC (Immunocytochemistry)

Confocal imaging of NIH/3T3 cells using HSP27/HSPB1 Rabbit mAb (AAA282621, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



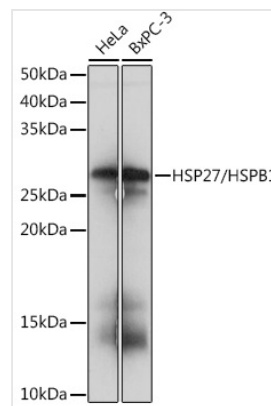
ICC (Immunocytochemistry)

Confocal imaging of paraffin-embedded Human colon cancer tissue using HSP27/HSPB1 Rabbit mAb (AAA282621, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 40x. Perform high pressure antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.



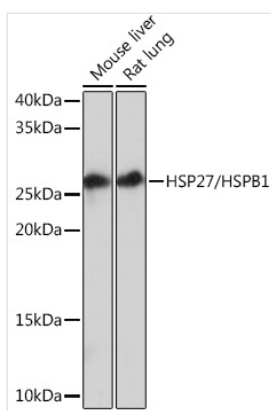
ICC (Immunocytochemistry)

Confocal imaging of U-2 OS cells using HSP27/HSPB1 Rabbit mAb (AAA282621, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



WB (Western Blot)

Western blot analysis of various lysates using HSP27/HSPB1 Rabbit mAb (AAA282621) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 1s.



WB (Western Blot)

Western blot analysis of various lysates using HSP27/HSPB1 Rabbit mAb (AAA282621) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 30s.

ADDITIONAL INFORMATION

Related Product Information for anti-HSPB1 antibody

This gene encodes a member of the small heat shock protein (HSP20) family of proteins. In response to environmental stress, the encoded protein translocates from the cytoplasm to the nucleus and functions as a molecular chaperone that promotes the correct folding of other proteins. This protein plays an important role in the differentiation of a wide variety of cell types. Expression of this gene is correlated with poor clinical outcome in multiple human cancers, and the encoded protein may promote cancer cell proliferation and metastasis, while protecting cancer cells from apoptosis. Mutations in this gene have been identified in human patients with Charcot-Marie-Tooth disease and distal hereditary motor neuropathy.

Product Categories/Family for anti-HSPB1 antibody

Epigenetics Nuclear Signaling; RNA Binding; Protein phosphorylation; Cancer; Tumor biomarkers; Signal Transduction; Cell Biology Developmental Biology; Apoptosis; Inhibition of Apoptosis; Cytoskeleton; Actins; Stem Cells; Cardiovascular; Heart; Contractil

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504517
NCBI GeneID	3315
NCBI Accession #	NP_001531.1
NCBI GenBank Nucleotide #	NM_001540.3

UniProt Accession #	P04792; Q6FI47; Q96C20; Q96EI7; Q9UC31; Q9UC34; Q9UC35; Q9UC36; B2R4N8
Molecular Weight	Calculated MW: 23kDa Observed MW: 27kDa
UniProt Protein Name	Heat shock protein beta-1
UniProt Gene Name	HSPB1
UniProt Synonym Gene Names	HSP27; HSP28; HspB1; HSP 27; SRP27
UniProt Entry Name	HSPB1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/hsp27-hspb1-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/282621>