

Rabbit [pSer82]HSP27 Polyclonal Antibody | anti-HspB1; Heat shock protein 27 antibody

HspB1, Heat shock protein 27

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA77006	Rabbit	Human, Mouse, Rat, Bovine, Chicken, Dog, Guinea pig, Sheep	Western Blot, Immunoprecipitation, Immunofluorescence

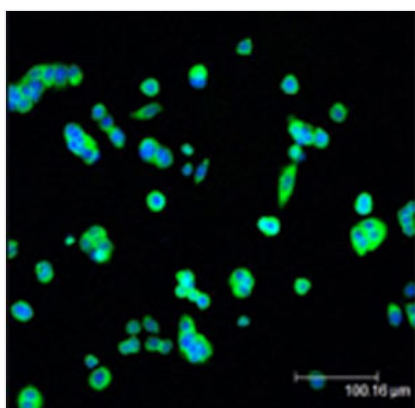
PRODUCT SYNONYMS

[pSer82]HSP27; Polyclonal Antibody; HspB1; Heat shock protein 27; HSP27; anti-HspB1; Heat shock protein 27 antibody

PRODUCT SPECIFICATIONS

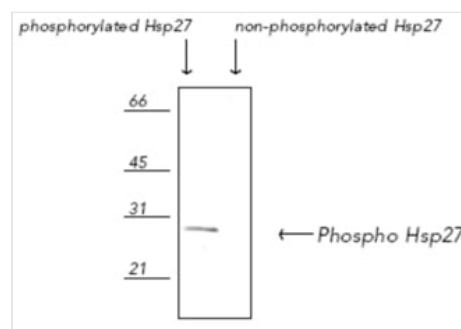
Host	Rabbit
Reactivity	Human, Mouse, Rat, Bovine, Chicken, Dog, Guinea pig, Sheep
Clonality	Polyclonal
Specificity	Recognizes human, mouse, rat, bovine, dog, chicken, guinea pig and sheep HSP27. Detects a band of ~27kDa by Western blot.
Form/Format	Liquid. Whole rabbit serum.
Sequence Length	205
Applicable Applications for anti-HspB1; Heat shock protein 27 antibody	WB (Western Blot), IP (Immunoprecipitation), IF (Immunofluorescence)
Immunogen	Synthetic peptide corresponding to a portion of human HSP27 phosphorylated at Ser82.
Preparation and Storage	Long term: Serum should be stored at -20 degree C. Short term storage: 4 degree C, supplement with 0.1% sodium azide. Avoid freeze/thaw cycles. Shipping: Ships on blue ice.

IMAGES



IF (Immunofluorescence)

Immunofluorescent analysis (confocal) staining of HeLa cells using Hsp27 (pSer82) pAb (green); nuclei are stained in blue pseudocolor using DRAQ5



WB (Western Blot)

Western blot analysis of phosphorylated HSP27 and nonphosphorylated HSP27 proteins probed with HSP27 (pSer82) pAb

ADDITIONAL INFORMATION

Related Product Information for anti-HspB1; Heat shock protein 27 antibody	Hsp27 is one of the most common members of the highly conserved and ubiquitously expressed family of small heat shock proteins (sHsp), which also includes alphaB-crystallin. It is characterized by a conserved C-terminal alpha-crystallin domain consisting of two anti-parallel beta-sheets that promote oligomer formation required for its primary chaperone function as inhibitor of irreversible protein aggregation. Hsp27 oligomerization is modulated by post-translational phosphorylation of Hsp27 at three serine residues, Ser15, Ser78, and Ser82, by a variety of protein kinases including MAPKAPK-3, PKAc-alpha, p70 S6K, PKD I, and PKC-delta. Hsp27 has been shown to inhibit actin polymerization by binding of unphosphorylated Hsp27 monomers to actin intermediate filaments. Anti-apoptotic functions of Hsp27 have also been identified through interactions with DAXX7, activation of Akt, and inhibition of apoptosome formation. Evidence suggests altered expression of Hsp27 is implicated in the pathogenesis of breast, ovarian, and prostate cancer.
Product Categories/Family for anti-HspB1; Heat shock protein 27 antibody	Protein Synthesis & Folding

NCBI AND UNIPROT INFORMATION

NCBI GI #	19855073
NCBI GeneID	3315
UniProt Accession #	P04792; Q6FI47; Q96C20; Q96EI7; Q9UC31; Q9UC34; Q9UC35; Q9UC36; B2R4N8
Molecular Weight	22,783 Da
NCBI Official Full Name	Heat shock protein beta-1
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
NCBI Protein Information	heat shock protein beta-1
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/polyclonal/pser82hsp27-antibody-western-blot-immunoprecipitation-immunofluorescence-elisa/77006>