

Mouse HSP27 Monoclonal Antibody | anti-HSP27 antibody

HSP27 monoclonal antibody (G3.1)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA77022	Mouse	Human, Mouse, Rat, Monkey, Bovine, Fish	Western Blot, Immunoprecipitation, Immunohistochemistry, Immunocytochemistry, ELISA

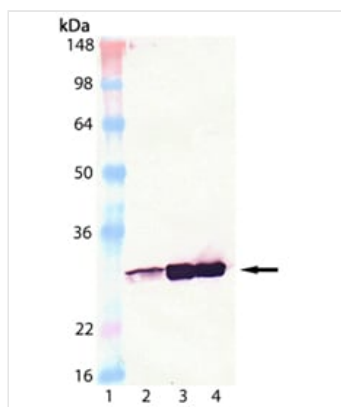
PRODUCT SYNONYMS

HSP27; Monoclonal Antibody; HSP27 monoclonal antibody (G3.1); HspB1; Heat shock protein 27; mAb (G3.1); anti-HSP27 antibody

PRODUCT SPECIFICATIONS

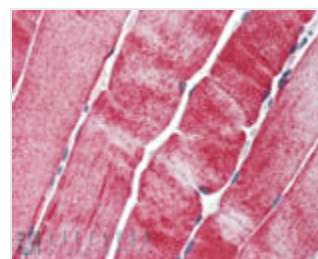
Host	Mouse
Reactivity	Human, Mouse, Rat, Monkey, Bovine, Fish
Clonality	Monoclonal
Isotype	IgG1
Clone Number	G3.1
Specificity	Recognizes human, mouse, rat, bovine, fish, and monkey HSP27. Detects a band of ~27kDa by Western blot.
Purity/Purification	Protein G affinity purified.
Form/Format	Liquid. In PBS, pH 7.2, containing 50% glycerol and 0.09% sodium azide.
Sequence Length	205
Applicable Applications for anti-HSP27 antibody	EM (Electron Microscopy), WB (Western Blot), IP (Immunoprecipitation), IHC (Immunohistochemistry), ICC (Immunocytochemistry), ELISA
Immunogen	Native human Hsp27.
Preparation and Storage	Long Term: -20 degree C Avoid freeze/thaw cycles.

IMAGES



WB (Western Blot)

Western blot analysis of HSP27, mAb (G3.1). Lane 1: MW marker; Lane 2: HeLa (heat shocked); Lane 3: Vero (heat shocked); Lane 4: HSP27 (human) (recombinant).



IHC (Immunohistochemistry)

Immunohistochemistry analysis of human skeletal muscle tissue stained with HSP27, mAb (G3.1) at 10 microg/ml.

ADDITIONAL INFORMATION

Related Product Information for anti-HSP27 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-HSP27 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

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-antibody-clone-g3-1-electron-microscopy-western-blot-immunoprecipitation-immunohistochemistry-immunocytochemistry-elisa/77022>