

Rabbit Heat Shock Protein 27 Polyclonal Antibody | anti-Hsp27 antibody

Heat Shock Protein 27, phosphorylated (Ser82) (HSP27)

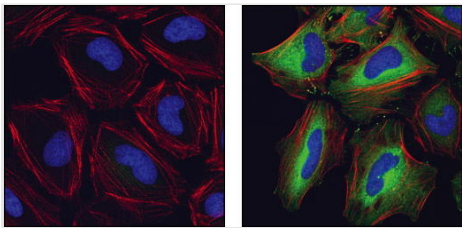
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA14726	Rabbit	Human, Monkey, Mouse, Rat	Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay, Immunofluorescence

PRODUCT SYNONYMS

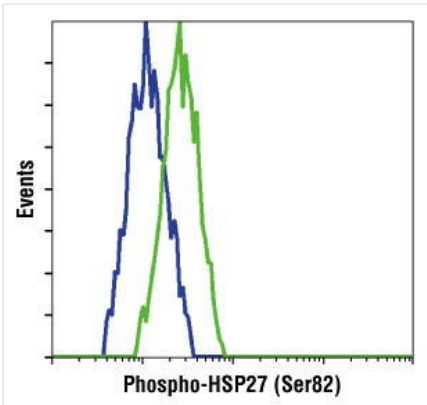
Heat Shock Protein 27; Polyclonal Antibody; phosphorylated (Ser82) (HSP27); Anti -Heat Shock Protein 27; anti-Hsp27 antibody

PRODUCT SPECIFICATIONS

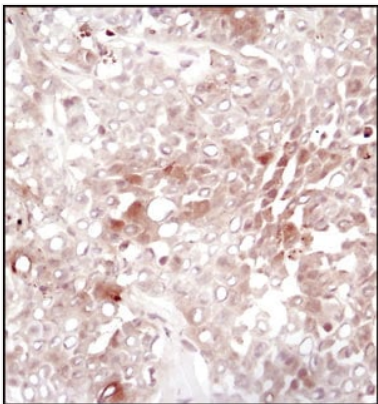
Host	Rabbit
Reactivity	Human, Monkey, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Detects endogenous HSP27 only when phosphorylated at Ser82. The antibody does not recognize other heat shock proteins.
Purity/Purification	Affinity Purified Purified by protein A and peptide affinity chromatography.
Form/Format	Supplied as a liquid in 10mM sodium HEPES, pH 7.5, 150mM sodium chloride, 100ug/ml BSA, 50% glycerol.
Applicable Applications for anti-Hsp27 antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), IF (Immunofluorescence)
Application Notes	Suitable for use in Immunofluorescence, Flow Cytometry, Western Blot and Immunohistochemistry. Dilution: Flow Cytometry: 1:25 Western Blot: 1:1000. Incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4 degree C with gentle shaking, overnight. Immunohistochemistry (Paraffin): 1:50 Immunohistochemistry (Frozen): 1:50 Immunofluorescence: 1:25
Immunogen	Synthetic phosphopeptide (KLH-coupled) corresponding to residues surrounding Ser82 of human HSP27.
Preparation and Storage	May be stored at 4 degree C for short-term only. For long-term storage, aliquot and store at -20 degree C. Aliquots are stable for at least 12 months at -20 degree C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.



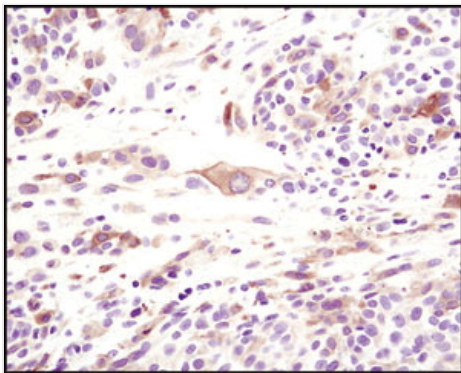
IF (Immunofluorescence)
Confocal immunofluorescent analysis of HeLa cells, untreated (left) or anisomycin-treated (right), using AAA14726 (green). Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red). Blue pseudocolor = DRAQ5 (fluorescent DNA dye).



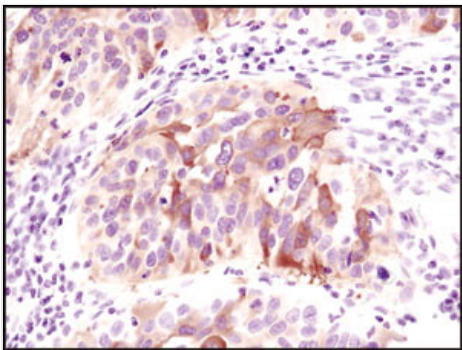
FCM (Flow Cytometry)
Flow cytometric analysis of HeLa cells, untreated (blue) or UV-treated (green), using AAA14726



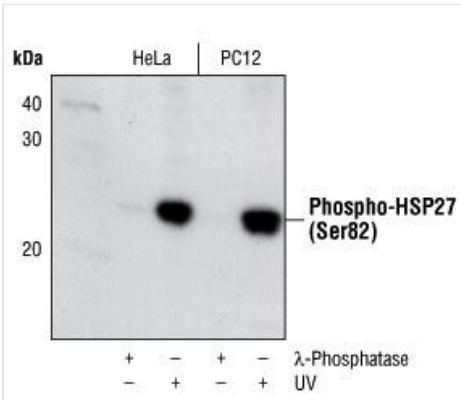
IHC (Immunohistochemistry)
Immunohistochemical analysis of frozen H1650 xenograft using AAA14726



IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded human melanoma using AAA14726



IHC (Immunohistochemistry)
Immunohistochemical analysis of paraffin-embedded human lung carcinoma using AAA14726



WB (Western Blot)
Western blot analysis of extracts from HeLa and PC12 cells, treated with λ -phosphatase or UV as indicated, using AAA14726

ADDITIONAL INFORMATION

Related Product Information for anti-Hsp27 antibody

Heat shock protein (HSP) 27 is one of the small HSPs that are constitutively expressed at different levels in various cell types and tissues. Like other small heat shock proteins, HSP27 is regulated at both the transcriptional and posttranslational levels (1). In response to stress, the expression level of HSP27 increases several-fold to confer cellular resistance to the adverse environmental change. HSP27 is phosphorylated at Ser15, Ser78 and Ser82 by MAPKAP kinase 2 as a result of the activation of the p38 MAP kinase pathway (2,3). Phosphorylation of HSP27 causes a change in its tertiary structure, which shifts from large homotypic multimers to dimers and monomers (4). It has been shown that phosphorylation and increased concentration of HSP27 modulates actin polymerization and reorganization (5,6).

Product Categories/Family for anti-Hsp27 antibody

Antibodies; Abs to Heat Shock Proteins

NCBI AND UNIPROT INFORMATION

NCBI GI #	17647521
NCBI GeneID	39078
NCBI Accession #	NP_524000.1
NCBI GenBank Nucleotide #	NM_079276.2
NCBI Official Full Name	heat shock protein 27
NCBI Official Synonym Full Names	Heat shock protein 27
NCBI Official Symbol	Hsp27
NCBI Official Synonym Symbols	27K; 28; anon-WO0140519.69; CG4466; Dhsp27; DmelCG4466; DmHsp27; hsp 27; hsp-27; hsp26; hsp27; HSP27; hsp27/26; hsp28; Hsp28; HSP28; small hsp locus 67B
NCBI Protein Information	CG4466 gene product from transcript CG4466-RA; heat shock protein 27; CG4466-PA; Hsp27-PA; heat shock protein hsp27; Hsp 27

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/heat-shock-protein-27-antibody-western-blot-immunohistochemistry-flow-cytometry-immunofluorescence-elisa/14726>