

Rabbit HSP20 Polyclonal Antibody | anti-HSP20 antibody

HSP20 Antibody

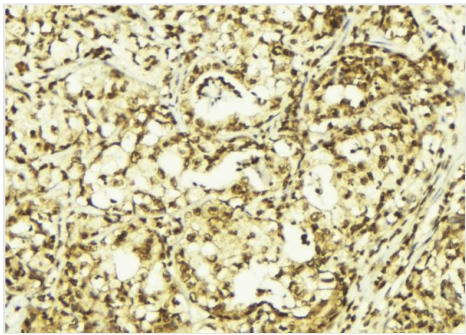
CATALOG # AAA322127	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

HSP20; Polyclonal Antibody; HSP20 Antibody; epididymis luminal protein 55; FLJ32389; Heat shock 20 kDa like protein p20; Heat shock 20 kDa-like protein p20; Heat shock protein alpha crystallin related B6; Heat shock protein beta 6; Heat shock protein beta-6; Heat shock protein; 20-KD; Heat-shock 27-KD protein 6; HEL55; Hsp20; HspB6; HSPB6_HUMAN; anti-HSP20 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	HSP20 antibody detects endogenous levels of total HSP20
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	160
Applicable Applications for anti-HSP20 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human HSP20
Subcellular Location	Cytoplasm. Nucleus. Translocates to nuclear foci during heat shock.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (85%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA322127 at 1/100 staining Human breast cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of HSP20 expression in whole cell lysates, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-HSP20 antibody	Description: HSP20 a small heat shock protein of the HSP20 family. Note: This description may include information from UniProtKB. Function: Small heat shock protein which functions as a molecular chaperone probably maintaining denatured proteins in a folding-competent state. Seems to have versatile functions in various biological processes. Plays a role in regulating muscle function such as smooth muscle vasorelaxation and cardiac myocyte contractility. May regulate myocardial angiogenesis implicating KDR. Overexpression mediates cardioprotection and angiogenesis after induced damage. Stabilizes monomeric YWHAZ thereby supporting YWHAZ chaperone-like activity. Subunit Structure: Homodimer. Small heat shock proteins form high molecular mass oligomers containing variable number of monomers; these oligomers display a very flexible quaternary structure easily exchanging their subunits. Heterooligomer with HSPB1; formed through oligomerization of HSPB1:HSPB6 dimers; subunit exchange leads to formation of at least two different heterooligomeric complexes, differing in variable quantities of HSPB1 and HSPB6 homodimers in addition to HSPB1:HSPB6 heterodimers. Heterooligomer with CRYAB; large heterooligomers consist of CRYAB homodimers and HSPB5:HSPB6 heterodimers but lacking HSPB6 homodimers. Interacts with BAG3. Interacts (phosphorylated) with YWHAZ. Interacts with PDE4A and PDE4D; required for maintenance of the non-phosphorylated state of HSPB6 under basal conditions. Interacts with KDR. Interacts with PRKD1. Post-translational Modifications: The N-terminus is blocked. Phosphorylated at Ser-16 by PKA and probably PKD1K; required to protect cardiomyocytes from apoptosis. Similarity: Belongs to the small heat shock protein (HSP20) family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	21389433
NCBI GeneID	126393
NCBI Accession #	NP_653218.1
NCBI GenBank Nucleotide #	NM_144617.2
UniProt Accession #	O14558; O14551; Q6NVI3; Q96MG9
Molecular Weight	Predicted: 18 kDa
NCBI Official Full Name	heat shock protein beta-6
NCBI Official Synonym Full Names	heat shock protein family B (small) member 6
NCBI Official Symbol	HSPB6
NCBI Official Synonym Symbols	HEL55; Hsp20; PPP1R91
NCBI Protein Information	heat shock protein beta-6

UniProt Protein Name	Heat shock protein beta-6
UniProt Gene Name	HSPB6
UniProt Synonym Gene Names	HspB6

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/hsp20-antibody-immunohistochemistry-western-blot-elisa/322127>