

Rabbit HSP20 Polyclonal Antibody | anti-HSP20 antibody

Phospho-HSP20 (Ser16) Antibody

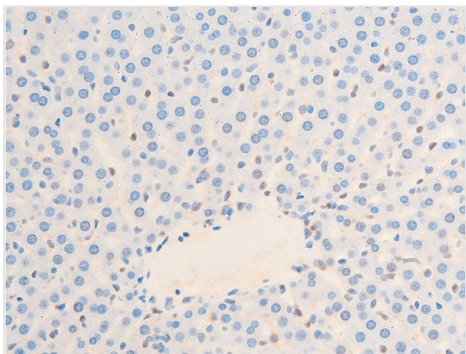
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA30944	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Immunofluorescence, Immunocytochemistry, ELISA

PRODUCT SYNONYMS

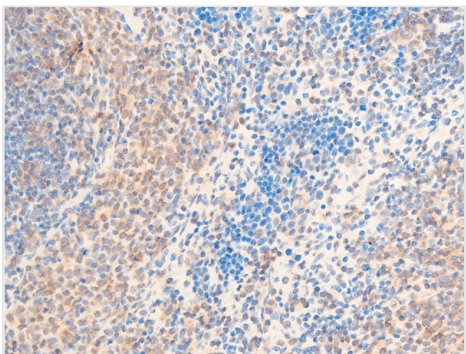
HSP20; Polyclonal Antibody; Phospho-HSP20 (Ser16) Antibody; epididymis luminal protein 55; FLJ32389; Heat shock 20 kDa like protein p20; Heat shock 20 kDa-like protein p20; Heat shock protein alpha crystallin related B6; Heat shock protein beta 6; Heat shock protein beta-6; Heat shock protein; 20-KD; Heat-shock 27-KD protein 6; HEL55; Hsp20; HspB6; HSPB6_HUMAN; anti-HSP20 antibody

PRODUCT SPECIFICATIONS

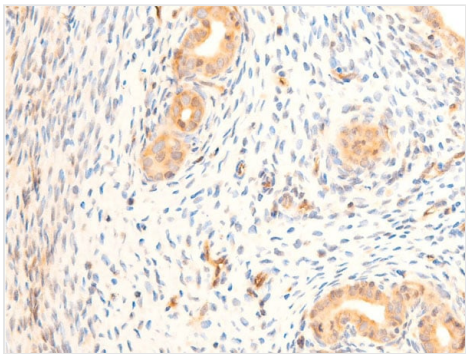
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-HSP20 (Ser16) antibody detects endogenous levels of HSP20 only when phosphorylated at Serine 16
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
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	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), ICC (Immunocytochemistry), ELISA
Application Notes	WB: 1:1000 IHC: 1:50-1:1000 IF/ICC: 1:100-1:500 Peptide ELISA: 1:20000-1:40000
Immunogen	A synthesized peptide derived from human HSP20 around the phosphorylation site of Serine 16
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
Epitope	Phospho Ser16
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



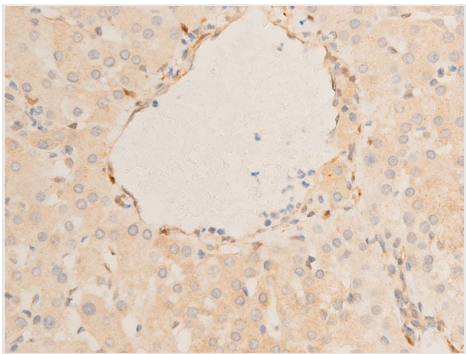
IHC (Immunohistochemistry)
AAA30944 at 1/100 staining rat liver tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



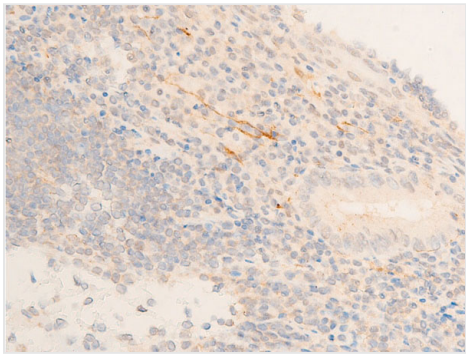
IHC (Immunohistochemistry)
AAA30944 at 1/100 staining rat spleen tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



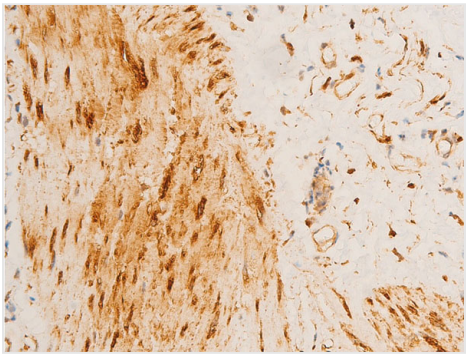
IHC (Immunohistochemistry)
AAA30944 at 1/100 staining uterine tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IHC (Immunohistochemistry)
AAA30944 at 1/100 staining human liver tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue 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.



IHC (Immunohistochemistry)
AAA30944 at 1/100 staining human appendiceal tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue 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.



IHC (Immunohistochemistry)
AAA30944 at 1/100 staining human gastric tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue 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.

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:HSBP6 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	Observed: 20 kDa 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-western-blot-immunohistochemistry-immunofluorescence-immunocytochemistry-elisa/30944>