

Mouse anti-Human HSPB1 Monoclonal Antibody | anti-HSPB1 antibody

HSPB1 (Heat Shock Protein beta-1, HspB1, Heat Shock 27kD Protein, HSP 27, Stress-responsive Protein 27, SRP27, Estrogen-regulated 24kD Protein, 28kD Heat Shock Protein, HSPB1, HSP27) APC

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA24539	Mouse	Human	ELISA, Immunofluorescence, Immunoprecipitation, Western Blot

PRODUCT SYNONYMS

HSPB1; Monoclonal Antibody; HSPB1 (Heat Shock Protein beta-1; HspB1; Heat Shock 27kD Protein; HSP 27; Stress-responsive Protein 27; SRP27; Estrogen-regulated 24kD Protein; 28kD Heat Shock Protein; HSP27) APC; anti-HSPB1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	3G3
Specificity	Recognizes human HSPB1.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Applicable Applications for anti-HSPB1 antibody	ELISA, IF (Immunofluorescence), IP (Immunoprecipitation), WB (Western Blot)
Application Notes	IF: 10ug/ml Applications are based on unconjugated antibody.
Immunogen	Partial recombinant corresponding to aa96-205 from human HSPB1 (NP_001531) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	RVSLDVNHFAPDELTVKTKDGVVEITGKHEERQDEHGYSRCFTRKYTLPPGVDPTQVSSSLSPEGTLTVEAPMPKLATQSNEITIPVTFESRAQLGGPEA
Conjugate	APC
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge original vial prior to removing the cap.

IMAGES



WB (Western Blot)
Western Blot detection against Immunogen (37.84kD).



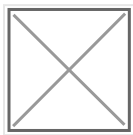
Application Data
Proximity Ligation Analysis (PLA) of protein-protein interactions between AKT1 and HSPB1. Mahlavu cells were stained with AKT1 rabbit purified polyclonal 1:1200 and HSPB1 mouse monoclonal antibody 1:50. Signals were detected 30 Detection Kit 613 (red), and nuclei were counterstained with DAPI (blue). Each red dot represents the detection of protein-protein interaction complex.



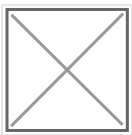
Application Data
Detection limit for recombinant GST tagged HSPB1 is ~0.1ng/ml as a capture antibody.



IP (Immunoprecipitation)
Immunoprecipitation of HSPB1 transfected lysate using HSPB1 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with HSPB1 rabbit polyclonal antibody.



IF (Immunofluorescence)
Immunofluorescence of monoclonal antibody to HSPB1 on HeLa cell. [antibody concentration 10ug/ml]



WB (Western Blot)
Western Blot analysis of HSPB1 expression in transfected 293T cell line by HSPB1 monoclonal antibody. Lane 1: HSPB1 transfected lysate (22.8kD). Lane 2: Non-transfected lysate.

ADDITIONAL INFORMATION

Product Categories/Family for anti-HSPB1 antibody	Antibodies; Heat Shock Proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4504517
NCBI GeneID	3315
NCBI Accession #	NP_001531
NCBI GenBank Nucleotide #	NM_001540
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/hspb1-antibody-clone-3g3-immunofluorescence-immunoprecipitation-western-blot-elisa/24539>