Mouse Hsp27 Monoclonal Antibody | anti-HSPB1 antibody

Hsp27 Antibody: RPE

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA103112	**Mouse**	**Human. Very limited cross-reactivity to other species.**	**Immunohistochemistry, ELISA, Immunoprecipitation, Western Blot**

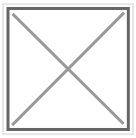
PRODUCT SYNONYMS

Hsp27; Monoclonal Antibody; Hsp27 Antibody: RPE; 28kDa heat shock protein; CMT2F; Hsp25; Hsp28; HspB1; SRP27; anti-HSPB1 antibody

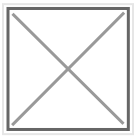
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human. Very limited cross-reactivity to other species.
Clonality	Monoclonal
Isotype	IgG2b Kappa
Clone Number	5D12-A12
Form/Format	Protein G Purified
Concentration	1mg/mL (varies by lot)
Sequence Length	205
Applicable Applications for anti-HSPB1 antibody	IHC (Immunohistochemistry), ELISA, IP (Immunoprecipitation), WB (Western Blot)
Conjugate	RPE
Storage Buffer	PBS pH7.4, 50% glycerol, 0.09% sodium azide
Preparation and Storage	-20 degree C

IMAGES



WB (Western Blot)
Western Blot analysis of Human Cell lysates showing detection of Hsp27 protein using Mouse Anti-Hsp27 Monoclonal Antibody, Clone 5D12-A3. Load: 15 ug. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-Hsp27 Monoclonal Antibody at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.



ICC (Immunocytochemistry)
Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Hsp27 Monoclonal Antibody, Clone 5D12-A3. Tissue: HaCaT cells. Species: Human. Fixation: Cold 100% methanol for 10 minutes at -20 degree C. Primary Antibody: Mouse Anti-Hsp27 Monoclonal Antibody at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Dull heterogeneous staining, some perinuclear, some nuclear and some cytoplasmic staining .

ADDITIONAL INFORMATION

Related Product Information for anti-HSPB1 antibody	**Background Info:** Detects ~27kDa protiens corresponding to Hsp27 on SDS Page Immunoblots. Has no cross-reactivity to alphaB crystallin. **Scientific Background:** Hsp27s belong to an abundant and ubiquitous family of Hsp27s belong to an abundant and ubiquitous family of

Product Categories/Family for anti-HSPB1 antibody	Chaperones; Heat Shock; Trafficking
References	1. Kim K.K., Kim R., and Kim, S. (1998) Nature 394(6693): 595-599. 2. Van Montfort R., Slingsby C., and Vierling E. (2001) Addv Protein Chem. 59: 105-56. 3. Ehrnsperger M., Graber S., Gaestel M. and Buchner J. (1997) EMBO J. 16: 221-229. 4. Ciocca D.R., Oesterreich S., Chamness G.C., McGuire W.L., and Fugua S.A. (1993) J Natl Cancer Inst. 85 (19): 1558-70. 5. Sarto C., Binnz P.A., and Mocarelli P. (2000) Electrophoresis. 21(6): 1218-26. 6. Arrigo A.P. (2005) J Cell Biochem. 94(2): 241-6. 1. K¶tter, S. et al. (2014). Human myocytes are protected from titin aggregation-induced stiffening by small heat shock proteins. J Cell Biol. 204(2):187-202. doi: 10.1083/jcb.201306077.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504517
NCBI GeneID	3315
NCBI Accession #	NP_001531.1
NCBI GenBank Nucleotide #	NM_001540.3
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 27kDa protein 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; HSP 27; 28 kDa heat shock protein; heat shock 27 kDa protein; heat shock 27kD protein 1; stress-responsive protein 27; estrogen-regulated 24 kDa protein; epididymis secretory protein Li 102
UniProt Protein Name	Heat shock protein beta-1
UniProt Gene Name	**HSPB1**
UniProt Synonym Gene Names	HSP27; HSP28; HspB1; HSP 27; SRP27
UniProt Entry Name	HSPB1_HUMAN

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-5d12-a12-immunohistochemistry-immunoprecipitation-western-blot-elisa/103112