

Product datasheet for **AM20629PU-N**

HSP27 (HSPB1) Mouse Monoclonal Antibody [Clone ID: SJ-25]

Product data:

Product Type:	Primary Antibodies
Clone Name:	SJ-25
Applications:	IF, IHC, WB
Recommended Dilution:	Western Blot: 0.5 - 2 µg/ml. Immunohistochemistry on frozen and paraffin sections: 1 - 2 µg/ml. Immunocytochemistry.
Reactivity:	Human, Turkey
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Partially purified inhibitor of actin polymerization (IAP) protein from turkey gizzard smooth muscle
Specificity:	This antibody reacts to HSPB1 / HSP27.
Formulation:	1.2 % sodium acetate, with 2 mg BSA and 0.01 mg sodium azide as preservative. State: Purified State: Lyophilized purified Ig fraction
Reconstitution Method:	Restore with 1.2% sodium acetate or neutral PBS
Concentration:	0,1 mg/ml (after reconstitution with PBS)
Purification:	Affinity chromatography
Conjugation:	Unconjugated
Storage:	Prior to reconstitution store at -20°C. Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	heat shock protein family B (small) member 1
Database Link:	Entrez Gene 3315 Human P04792



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Background:	The heat-shock proteins (HSPs) belong to a larger group of polypeptides, the stress proteins, that are induced in various combinations in response to environmental challenges and developmental transitions. Heat-shock 27-kD protein also known as HSPB. Synthesis of the small (27-kD) HSP has been shown to be correlated with the acquisition of thermotolerance. HSP27 gene is mapped to 7q11.23. Mutant small heat-shock protein 27 causes axonal Charcot-Marie-Tooth disease and distal hereditary motor neuropathy. Heat shock protein 27 prevents cellular polyglutamine toxicity and suppresses the increase of reactive oxygen species caused by huntingtin.
Synonyms:	Heat shock protein beta-1, Heat shock 27 kDa protein, HSP28, 28 kDa heat shock protein, SRP27, HSP25
Protein Pathways:	MAPK signaling pathway, VEGF signaling pathway