SunLong Biotech Co.,LTD
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[Primary Antibody]

Mouse Anti-HSPB6 antibody

Catalog Number: SLM-60365M

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Mouse
Isotype:	IgG1/Kappa
Clonality:	Monoclonal
Clone No.:	A5H2
Target:	HSPB6
Purification:	Affinity purified by Protein G
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-1000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse(predicted:Rat)
Predicted MW.:	17kDa
Subcellular Location:	The nucleus The cell membrane Secretory protein
Background:	Hsp20 is a small heat shock protein related to Hsp25, Hsp27 and may form different hetercomplexes with these proteins. The specific physiological function of Hsp20 is not yet known. It is distributed ubiquitously in tissues, but is found in higher levels in skeletal, smooth and heart muscle. Under normal conditions, Hsp20 is diffusely distributed in the cytosol, but under heat stress conditions, it translocates to the nucleus. Unlike other heat shock proteins the amount of Hsp20 does not increase after heat shock. The Hsp20 was demonstrated to constitute up to 1.3% of the total cellular protein in vertebrate tissues, especially in muscle, and its expression is related to muscle contraction, specifically in slow-twitch muscle. Hsp20 may form different heterocomplexes with other Hsp's, such as alpha-crystalline and Hsp25. Phosphorylated form of Hsp20 is proposed to interact

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	with monomeric actin whereas dephosphorylated form binds polymeric actin filaments. In normal conditions Hsp20 is diffusely disturbed in cytosol but under the heat stress it undergoes translocation to membrane fraction. **Subcellular Location:** Cytoplasm. Nucleus. Note=Translocates to nuclear foci during heat shock. **SWISS:** O14558 **Gene ID:** 126393 Small heat shock proteins, acting as molecular chaperones, may maintain denatured proteins in a foldable state and may have multiple functions in various biological processes. They play a role in regulating muscle function, such as smooth muscle vasodilation and myocardial cell contraction. They may also regulate KDR-related myocardial angiogenesis. Overexpression mediates the induction of cardioprotection and angiogenesis after injury. They stabilize monomeric YWHAZ, thereby supporting the chaperone activity of the YWHAZ family.

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