



Rabbit Anti-HSP β 7 antibody

SL9854R

Product Name:	HSP β 7
Chinese Name:	热休克蛋白 β 7抗体
Alias:	Cardiovascular heat shock protein; cvHsp; Heat shock 27kda protein family member 7; Heat shock protein beta 7; Heat shock protein beta-7; Hsp25 2; HspB7; HSPB7 HUMAN; Hypothetical protein flj34956; RP11-5P18.6
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Cow,Horse,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:50-200 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	19kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human HSP β 7/cvHSP:101-170
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 癢 for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20癢. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 癢.
PubMed:	PubMed
Product Detail:	The heat shock proteins (HSPs) comprise a group of highly conserved, abundantly expressed proteins with diverse functions, including the assembly and sequestering of multiprotein complexes, transportation of nascent polypeptide chains across cellular membranes and regulation of protein folding. Heat shock proteins (also known as

molecular chaperones) fall into six general families: HSP 90, HSP 70, HSP 60, the small HSPs, the immunophilins and the HSP 110 family. HSPB7 (heat shock 27kDa protein family, member 7), also known as cvHSP (cardiovascular heat shock protein) or Heat shock protein beta-7, is a member of the small HSP (sHSP) family expressed in heart and skeletal muscle. Members of the sHSP family contain a conserved C-terminal ?crystallin domain and typically function in homo- or heteromeric complexes. The sHSPs bind to denatured proteins and are responsible for preventing the aggregation of these proteins. In response to muscle fiber transformation and in muscular dystrophy, the expression levels of HSPB7 are drastically increased, suggesting that HSPB7 may be a useful target in therapeutic strategies for preventing age-related muscle wasting.

Subunit:

Interacts with C-terminal domain of actin-binding protein 280.

Subcellular Location:

Cytoplasm. Nucleus. Nucleus, Cajal body. Note=Resides in sub-nuclear structures known as SC35 speckles or nuclear splicing speckles.

Tissue Specificity:

Isoform 1 is highly expressed in adult and fetal heart, skeletal muscle, and at a much lower levels in adipose tissue and in aorta. Undetectable in other tissues. Isoform 2 and isoform 3 are poorly detected in heart.

Similarity:

Belongs to the small heat shock protein (HSP20) family.

SWISS:

Q9UBY9

Gene ID:

27129

Database links:

[Entrez Gene: 27129](#)Human

[Omim: 610692](#)Human

[SwissProt: Q9UBY9](#)Human

[Unigene: 502612](#)Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

