

For Research Use Only

# HSP20 Polyclonal antibody

Catalog Number:16813-1-AP



## Basic Information

<b>Catalog Number:</b> 16813-1-AP	<b>GenBank Accession Number:</b> BC068046	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 800 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 126393	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:50-1:200 IF-P 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O14558	
<b>Isotype:</b> IgG	<b>Full Name:</b> heat shock protein, alpha-crystallin-related, B6	
<b>Immunogen Catalog Number:</b> AG10352	<b>Calculated MW:</b> 160 aa, 17 kDa	
	<b>Observed MW:</b> 18-20 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF-P, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, rat, mouse	<b>WB:</b> rat heart tissue, mouse heart tissue
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IHC:</b> mouse heart tissue, mouse brain tissue
	<b>IF-P:</b> mouse heart tissue,

## Background Information

Hsp20 is a member of the small heat shock superfamily of proteins that function as chaperones to prevent protein misfolding through adenosine triphosphate-independent processes. It is widely expressed but is most abundant in cardiac, skeletal, and smooth muscles. Phosphorylation of HSP20 at Ser16 was elevated in human failing hearts as well as in murine hearts after I/R injury indicating its cardioprotective function.

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

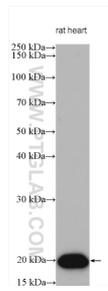
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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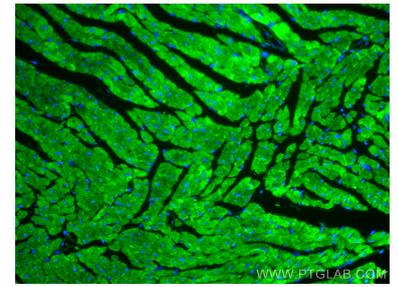
## Selected Validation Data



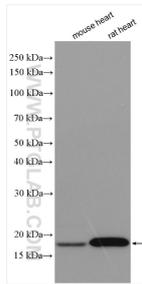
rat heart tissues were subjected to SDS PAGE followed by western blot with 16813-1-AP (HSP20 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



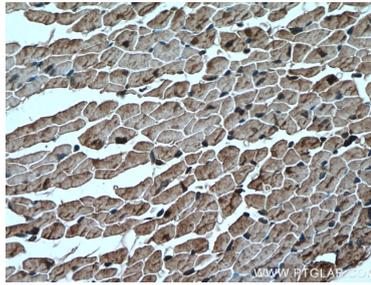
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 16813-1-AP (HSP20 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using HSP20 antibody (16813-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



Various lysates were subjected to SDS PAGE followed by western blot with 16813-1-AP (HSP20 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 16813-1-AP (HSP20 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).