

For Research Use Only

HSP20 Polyclonal antibody

Catalog Number: 16813-1-AP



Basic Information

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

Applications

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

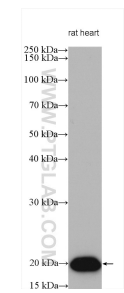
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 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
W: ptglab.com

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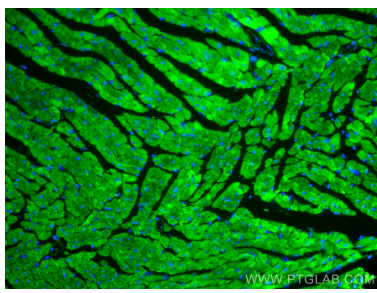
Selected Validation Data



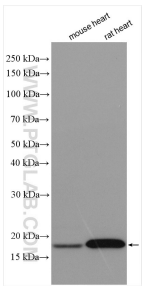
rat heart tissues were subjected to SDS PAGE followed by western blot with 16813-1-AP (HSP20 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



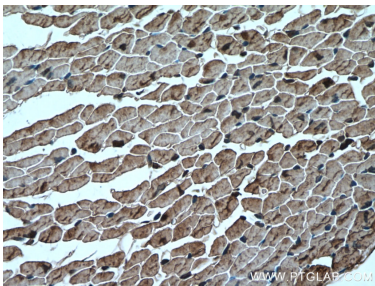
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 16813-1-AP (HSP20 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).