

For Research Use Only

HSP20 Monoclonal antibody

Catalog Number: 67327-1-Ig **1 Publications**



Basic Information

Catalog Number: 67327-1-Ig	GenBank Accession Number: BC068046	Purification Method: Protein A purification
Size: 150ul , Concentration: 1700 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 126393	CloneNo.: 1G7D2
Source: Mouse	UNIPROT ID: O14558	Recommended Dilutions: WB 1:2000-1:20000 IHC 1:500-1:2000 IF-P 1:200-1:800 IF/ICC 1:850-1:3400
Isotype: IgG2a	Full Name: heat shock protein, alpha-crystallin-related, B6	
Immunogen Catalog Number: AG10484	Calculated MW: 160 aa, 17 kDa	
	Observed MW: 17 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, IF-P, ELISA	Positive Controls: WB : pig skeletal muscle tissue, mouse heart tissue, rat heart tissue, mouse skeletal muscle tissue, rat skeletal muscle tissue
Cited Applications: IHC	IHC : human heart tissue,
Species Specificity: human, mouse, rat, pig	IF-P : mouse heart tissue,
Cited Species: human	IF/ICC : U-118 MG cells,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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.

Notable Publications

Author	Pubmed ID	Journal	Application
Shiqi Gao	38237739	Lab Invest	IHC

Storage

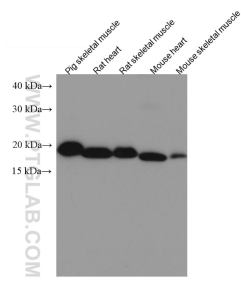
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

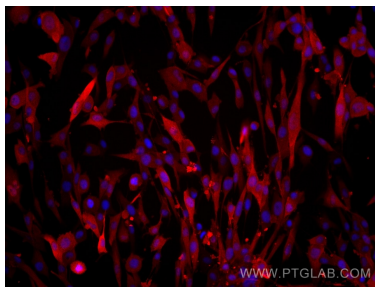
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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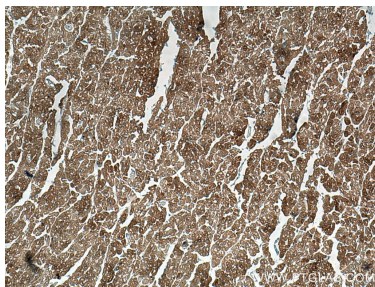
Selected Validation Data



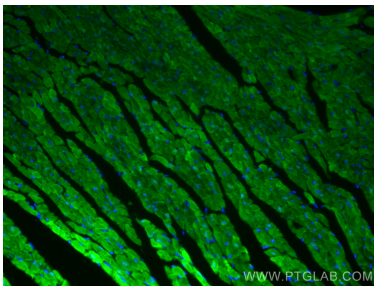
Various lysates were subjected to SDS PAGE followed by western blot with 67327-1-Ig (HSP20 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed U-118 MG cells using HSP20 antibody (67327-1-Ig, Clone: 1G7D2) at dilution of 1:1700 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004).



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 67327-1-Ig (HSP20 antibody) at dilution of 1:1000 (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 (67327-1-Ig, Clone: 1G7D2) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).