

For Research Use Only

Cardiac Troponin I Recombinant monoclonal antibody

Catalog Number: 86791-1-RR



Basic Information

Catalog Number: 86791-1-RR	GenBank Accession Number: BC096165	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 7137	CloneNo.: 251696H7
Source: Rabbit	UNIPROT ID: P19429	Recommended Dilutions: WB: 1:2000-1:10000 IHC: 1:500-1:2000 IF-P: 1:200-1:800
Isotype: IgG	Full Name: troponin I type 3 (cardiac)	
Immunogen Catalog Number: AG16365	Calculated MW: 210 aa, 24 kDa	
	Observed MW: 24-26 kDa	

Applications

Tested Applications:

WB, IHC, IF-P, ELISA

Species Specificity:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : human heart tissue, mouse heart tissue, rat heart tissue

IHC : rat heart tissue,

IF-P : mouse heart tissue,

Background Information

Troponin I (TnI) is the inhibitory subunit of troponin, the structural protein involved in the regulation of striated muscle contraction. Cardiac Troponin I (cTnI) is produced by cardiac muscle. cTnI has been considered as one of the most specific and sensitive markers of myocardial damage like acute myocardial infarction (AMI) for decades. Detection of cTnI in serum is widely accepted as a diagnostic tool in acute coronary syndromes.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

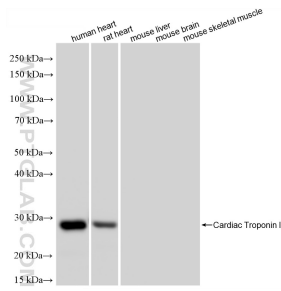
For technical support and original validation data for this product please contact:

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

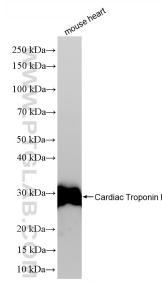
E: proteintech@ptglab.com
W: ptglab.com

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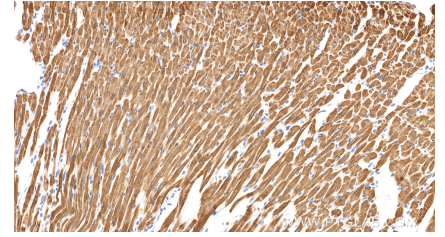
Selected Validation Data



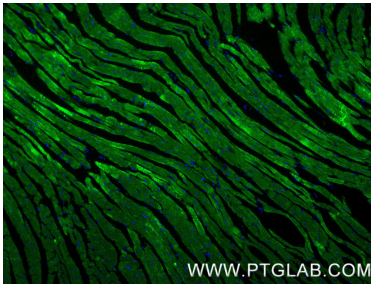
Various lysates were subjected to SDS PAGE followed by western blot with 86791-1-RR (Cardiac Troponin I antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. Negative control: mouse liver tissue, mouse brain tissue, mouse skeletal muscle tissue.



Mouse heart tissue were subjected to SDS PAGE followed by western blot with 86791-1-RR (Cardiac Troponin I antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded rat heart tissue slide using 86791-1-RR (Cardiac Troponin I antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse heart tissue using Cardiac Troponin I antibody (86791-1-RR, Clone: 251696H7) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).