

For Research Use Only

# Cardiac Troponin I Recombinant monoclonal antibody, PBS Only

Catalog Number:86791-1-PBS



## Basic Information

|   |  |   |
|---|--|---|
| <b>Catalog Number:</b><br>86791-1-PBS       | <b>GenBank Accession Number:</b><br>BC096165     | <b>Purification Method:</b><br>Protein A purification |
| <b>Source:</b><br>Rabbit                    | <b>GeneID (NCBI):</b><br>7137                    | <b>CloneNo.:</b><br>251696H7                          |
| <b>Isotype:</b><br>IgG                      | <b>UNIPROT ID:</b><br>P19429                     |   |
| <b>Immunogen Catalog Number:</b><br>AG16365 | <b>Full Name:</b><br>troponin I type 3 (cardiac) |   |
|   | <b>Calculated MW:</b><br>210 aa, 24 kDa          |   |
|   | <b>Observed MW:</b><br>24-26 kDa                 |   |

## Applications

**Tested Applications:**  
WB, IHC, IF-P, Indirect ELISA

**Species Specificity:**  
human, mouse, rat

## 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 -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS only, pH7.3

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

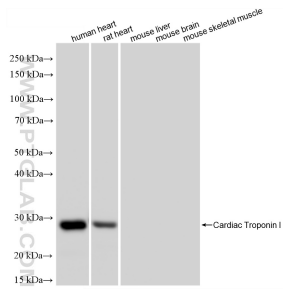
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

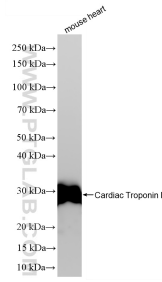
W: [ptgcn.com](http://ptgcn.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

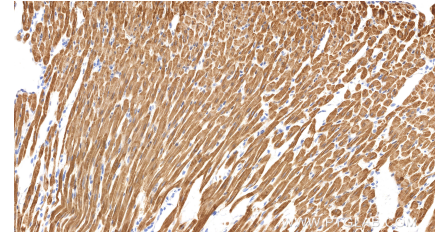
## Selected Validation Data



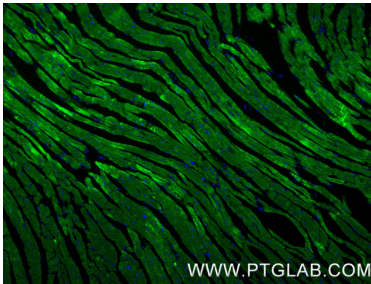
Various lysates were subjected to SDS PAGE followed by western blot with 86791-1-RR (Cardiac Troponin I antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. Negative control: mouse liver tissue, mouse brain tissue, mouse skeletal muscle tissue. This data was developed using the same antibody clone with 86791-1-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 86791-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 86791-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 86791-1-PBS in a different storage buffer formulation.