

A0152

Leader in Biomolecular Solutions for Life Science



# Cardiac Troponin I (TNNI3) Rabbit pAb

Catalog No.: A0152

2 Publications

## Basic Information

### Observed MW

28kDa

### Calculated MW

24kDa

### Category

Polyclonal Antibody

### Applications

WB,IF/ICC,IP,ELISA

### Cross-Reactivity

Mouse,Rat

## Background

Troponin I (TnI), along with troponin T (TnT) and troponin C (TnC), is one of 3 subunits that form the troponin complex of the thin filaments of striated muscle. TnI is the inhibitory subunit; blocking actin-myosin interactions and thereby mediating striated muscle relaxation. The TnI subfamily contains three genes: TnI-skeletal-fast-twitch, TnI-skeletal-slow-twitch, and TnI-cardiac. This gene encodes the TnI-cardiac protein and is exclusively expressed in cardiac muscle tissues. Mutations in this gene cause familial hypertrophic cardiomyopathy type 7 (CMH7) and familial restrictive cardiomyopathy (RCM). Troponin I is useful in making a diagnosis of heart failure, and of ischemic heart disease. An elevated level of troponin is also now used as indicator of acute myocardial injury in patients hospitalized with moderate/severe Coronavirus Disease 2019 (COVID-19). Such elevation has also been associated with higher risk of mortality in cardiovascular disease patients hospitalized due to COVID-19.

## Recommended Dilutions

WB 1:500 - 1:1000

IF/ICC 1:50 - 1:200

IP 0.5µg-4µg antibody for  
400µg-600µg extracts  
of whole cells

## Immunogen Information

### Gene ID

7137

### Swiss Prot

P19429

### Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 1-210 of human Cardiac Troponin I (TNNI3) (NP\_000354.4).

### Synonyms

CMH7; RCM1; cTnI; CMD2A; TNNC1; CMD1FF; Cardiac Troponin I (TNNI3)

## Contact

 [www.abclonal.com](http://www.abclonal.com)

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

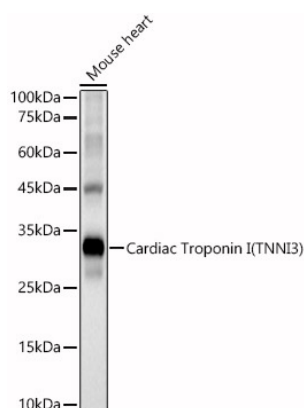
Affinity purification

### Storage

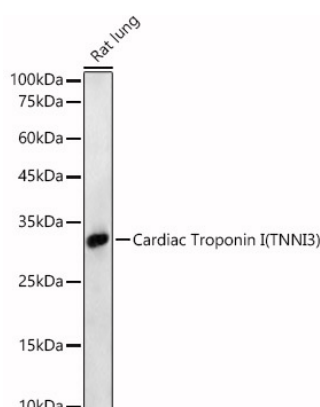
Store at -20°C. Avoid freeze / thaw cycles.

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

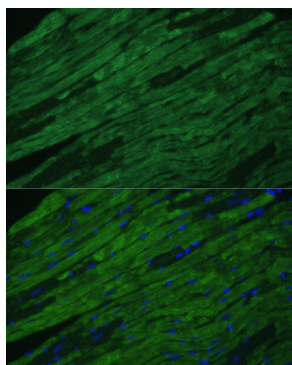
## Validation Data



Western blot analysis of lysates from Mouse heart, using Cardiac Troponin I (TNNI3) Rabbit pAb (A0152) at 1:900 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 20s.

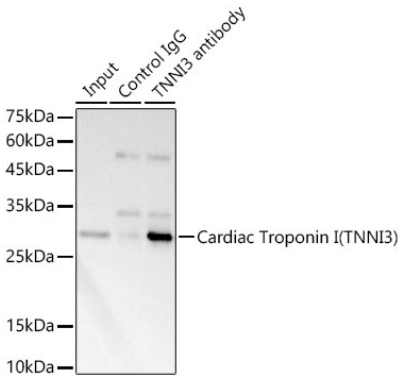


Western blot analysis of lysates from Rat lung, using Cardiac Troponin I (TNNI3) Rabbit pAb (A0152) at 1:900 dilution.  
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 60s.



Immunofluorescence analysis of paraffin-embedded mouse heart using Cardiac Troponin I (TNNI3) Rabbit pAb (A0152) at dilution of 1:100. Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

Validation Data



Immunoprecipitation analysis of 600 µg extracts of Mouse heart cells using 3 µg Cardiac Troponin I (TNNI3) antibody (A0152). Western blot was performed from the immunoprecipitate using Cardiac Troponin I (TNNI3) antibody (A0152) at a dilution of 1:1000.