

A0152

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# Cardiac Troponin I (TNNI3) Rabbit pAb

Catalog No.: A0152 **2 Publications**

## Basic Information

### Observed MW

28kDa

### Calculated MW

24kDa

### Category

Polyclonal Antibody

### Applications

WB,IP,ELISA,IF-P

### 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

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

**IF-P** 1:50 - 1:200

**ELISA** Recommended starting  
concentration is 1  
µg/mL. Please optimize  
the concentration  
based on your specific  
assay requirements.

## Immunogen Information

### Gene ID

7137

### Swiss Prot

P19429

### Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

### Synonyms

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

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

### Storage

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

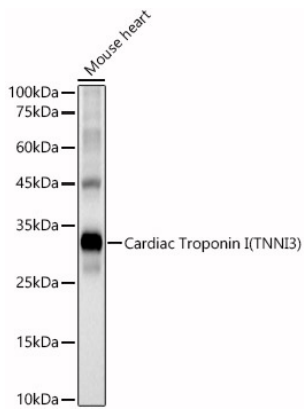
Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

## Contact

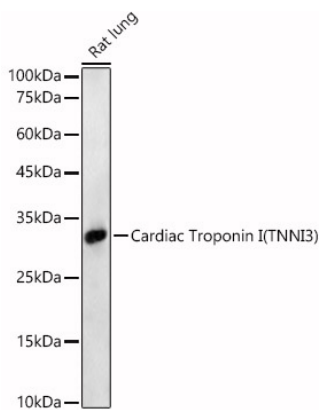


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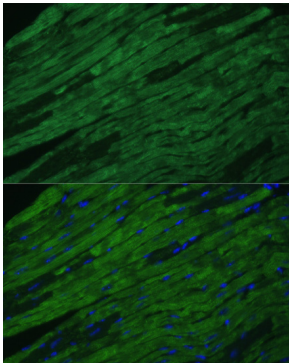
## Validation Data



Western blot analysis of lysates from Mouse heart, using Cardiac Troponin I (TNNI3) Rabbit pAb (A0152) at 1:900 dilution.  
Secondary antibody: HRP-conjugated 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.



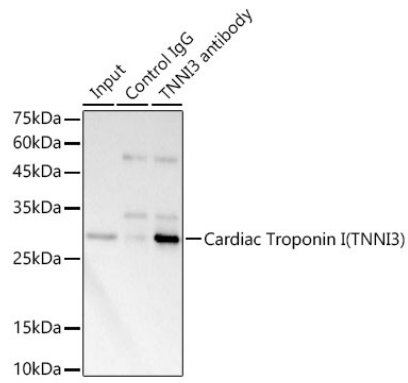
Western blot analysis of lysates from Rat lung, using Cardiac Troponin I (TNNI3) Rabbit pAb (A0152) at 1:900 dilution.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25µg per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: 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-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

## Validation Data

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Immunoprecipitation analysis of 600  $\mu$ g extracts of Mouse heart cells using 3  $\mu$ g 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.