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## Cardiac Troponin I (TNNI3) Rabbit mAb

Catalog No.: A22387 Recombinant

## **Basic Information**

## **Observed MW**

28kDa

#### **Calculated MW**

24kDa

## Category

Primary antibody

## **Applications**

WB,IF/ICC,ELISA

### **Cross-Reactivity**

Human, Mouse, Rat

#### CloneNo number

ARC5109-09

## **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** 1:20000 - 1:200000

IF/ICC 1:200 - 1:1000

**ELISA** Recommended starting concentration is 1 µg/mL.

Please optimize the concentration based on your specific assay

## 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)

## **Contact**

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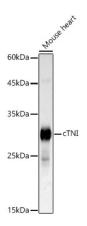
## **Product Information**

SourceIsotypePurificationRabbitIgGAffinity purification

#### Storage

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

Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

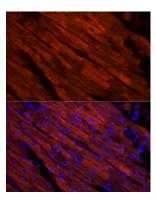


Western blot analysis of lysates from Mouse heart, using cTNI Rabbit mAb (A22387) at 1:20000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins:  $25\mu g$  per lane.

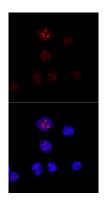
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

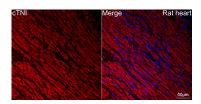
Exposure time: 1s.



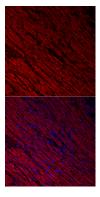
Immunofluorescence analysis of paraffinembedded mouse heart using Cardiac Troponin I (TNNI3) Rabbit mAb (A22387) at dilution of 1:1000 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Confocal imaging of K-562 cells using Cardiac Troponin I (TNNI3) Rabbit mAb (A22387,dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007,dilution 1:500)(Red).DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of paraffin-embedded rat heart using Cardiac Troponin I (TNNI3) Rabbit mAb (A22387,dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007,dilution 1:500)(Red).DAPI was used for nuclear staining (Blue). Objective: 40x.Perform high pressure antigen retrieval with 0.01M citrate buffer (pH 6.0) prior to IF staining.



Confocal imaging of paraffin-embedded rat heart using Cardiac Troponin I (TNNI3) Rabbit mAb (A22387,dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007,dilution 1:500)(Red).DAPI was used for nuclear staining (Blue). Objective: 40x.Perform high pressure antigen retrieval with 0.01 M citrate buffer (pH 6.0) prior to IF staining.