

# Phospho-Cardiac Troponin I (TNNI3)-S23/S24 Rabbit mAb

Catalog No.: AP1400 **Recombinant**

## Basic Information

### Observed MW

Refer to figures

### Calculated MW

24kDa

### Category

Primary antibody

### Applications

ELISA,IHC-P

### Cross-Reactivity

Human

### CloneNo number

ARC56024

## 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

IHC-P 1:500 - 1:1000

## Immunogen Information

### Gene ID

7137

### Swiss Prot

P19429

### Immunogen

A synthetic phosphorylated peptide around S23 & S24 of human Cardiac Troponin I (TNNI3) (NP\_000354.4).

### Synonyms

CMH7; RCM1; cTnI; CMD2A; TNNC1; CMD1FF; Phospho-Cardiac Troponin I (TNNI3)-S23/S24

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

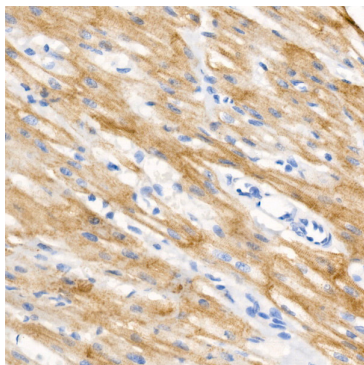
### Storage

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

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

## Validation Data

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Immunohistochemistry analysis of paraffin-embedded Human heart using Phospho-Cardiac Troponin I (TNNI3)-S23/S24 Rabbit mAb (AP1400) at dilution of 1:700 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.